MUTOH
Your Partner for Visual Communication

User's Guide
ValueJet

ValueJet

VJ-1204
Eco-Solvent
Ultra Printer

FOR EUROPE ONLY!



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www.mutoh.eu
www.mutoh.be

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In a domestic environment this product may cause radio interference in which case you may be required to take adequate measures.
Change the direction of the receiving antenna or feeder.

This product is subject to the WEEE regulations.



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⚠ Notes ⚠

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ABOUT THIS GUIDE

Purpose and Target Readers

Thank you for purchasing a Mutoh ValueJet 1204 printer!

This guide explains preparations before use and operation procedures for MUTOH's Full Colour Inkjet printer VJ-1204.

This guide is prepared for the owners and operators of this product.

Before using the printer, fully understand the contents and directions in this guide.

Guide Configuration

Section	Contents
1 Safety instructions	This chapter explains about the printer installation, warning terms which the operator needs to know, caution items and warning labels stuck on the printer main unit.
2 Product overview	This chapter explains about the features of the printer along with the names and functions of each part.
3 Installing the unit	This chapter explains how to install the printer.
4 Handling the printer	This chapter explains how to handle the printer.
5 Periodical maintenance	This chapter explains how to perform the maintenance.
6 Troubleshooting	This chapter describes possible troubles during the use of this product and countermeasures.
7 Appendix	Interface specifications & options

⚠ Notes ⚠

- **1 Safety instructions** through **4 Handling the printer** must be read before using the printer.
- Read **5 Periodical maintenance** through if necessary.

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TABLE OF CONTENTS

1 SAFETY INSTRUCTIONS 9

1.1 INTRODUCTION 10
1.2 WARNINGS, CAUTIONS AND NOTES 10
1.3 IMPORTANT SAFETY INSTRUCTIONS 10
1.4 WARNING LABELS 13
1.5 OPERATION PROCEDURE LABELS 15

2 PRODUCT OVERVIEW 17

2.1 FEATURES 18
2.2 NAME OF THE PARTS AND FUNCTIONS 19
2.3 PRINTER MODE 24

3 INSTALLING THE UNIT 25

3.1 INTRODUCTION 26
3.2 INSTALLATION SPACE 26
3.3 INSTALLATION PROCEDURE 27
3.4 POWER CABLE CONNECTION 28
3.5 SWITCHING THE POWER ON / OFF 30
3.6 INSTALLING INK CASSETTES FOR THE FIRST TIME 32
3.7 CONNECTING THE PRINTER TO THE PC 38
3.8 TRANSFER AND TRANSPORTATION 40

4 HANDLING THE PRINTER 43

4.1 INTRODUCTION 45
4.2 MAKING THE PRINTER READY-TO-PRINT 45
4.3 USING MEDIA 46
4.4 HANDLING AND INSTALLING MEDIA 48
4.5 TEST PRINT 64
4.6 ADJUST PRINT 70
4.7 MENU SETUP ON THE OPERATION PANEL 74
4.8 SETUP MENU 76
4.9 OPERATING FROM THE OPERATION PANEL 91

5 PERIODICAL MAINTENANCE 95

5.1 DONE BY END USER 96
5.2 DONE BY AUTHORIZED MUTOH TECHNICIAN 107

6 TROUBLESHOOTING 109

6.1 MALFUNCTION AND FAILURE OF THE PRODUCT 110
6.2 ERROR MESSAGES 115
6.3 THE MEDIA IS JAMMED 119

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1 SAFETY INSTRUCTIONS

1.1 INTRODUCTION 10

1.2 WARNINGS, CAUTIONS AND NOTES 10

1.3 IMPORTANT SAFETY INSTRUCTIONS 10

1.4 WARNING LABELS 13

1.4.1 Handling the operation procedure labels 13

1.4.2 Locations and types of warning labels 13

1.5 OPERATION PROCEDURE LABELS 15

1.5.1 Handling the operation procedure labels 15

1.5.2 Locations and types of warning labels 15

1.1 INTRODUCTION

This chapter explains about the printer installation, warning terms which the operator needs to know, caution items and warning labels stuck on the printer main unit.

⚠ Caution ⚠

- **When performing installation and operation of the printer, be sure to follow the directions and warnings mentioned in this document.**

1.2 WARNINGS, CAUTIONS AND NOTES

The contents of alarm displays included in this User's Guide and warning labels stuck on the main body of the printer are classified into three categories, according to degree of danger.
Understand the meaning of the following warning terms and follow the contents (instructions) in this guide.

Warnings	Meaning
⚠ Important ⚠	If ignored, it would lead to dangerous situations where death or serious injury may be caused.
⚠ Caution ⚠	If ignored, it would lead to a dangerous situation, causing slight or middle class illness, or damage to the product or parts of the product.
⚠ Notes ⚠	Used for a special caution and for information which needs to be emphasized.

1.3 IMPORTANT SAFETY INSTRUCTIONS

In order to use the printer safely, the general notes which must be followed are explained.

Symbol	Meaning
	Indicates 'prohibited' operations.
	Indicates required operations.

⚠ Important ⚠

Do not install the printer places where there is a possibility that the printer may be damaged or might fall by chance.
- On a shaky stand
- Slanting location
- Places where vibration of other machines etc. is transmitted

Do not stand on the printer or do not place heavy things on top of it. The printer may be damaged or might fall by chance.

When not in use, cover the printer with a blanket and do not close the vent. If the vent is closed, the printer could accumulate heat inside and may cause fire.

Do not install the printer in places where the humidity is high and in a dusty environment. It could lead to electric shock and fire.

Do not use a damaged power cable. It could lead to an electric shock and fire.

Do not take out or insert the power plug with wet hands. This could lead to an electric shock.

Do not connect earth cables in the following areas :
- Gas pipes. Doing so may cause fire or an explosion.
- Earth terminals for telephone lines or lightning rods. Doing so may cause a large flow of voltage if lightning occurs.
- Water pipes or faucets. If there is a plastic part in the pipe, the grounding will not work correctly.

Do not store combustible materials on the print platform. It could lead to fire when raising the temperature.

Do not insert or drop metal or objects which are easily combustible through the openings such as fresh air inlet into the printer. It could lead to an electric shock and fire.

When foreign substances or liquids such as water entered the printer, do not use the printer. It could lead to an electric shock and fire. Immediately switch off the power, disconnect the power plug from the electric socket, and contact your local MUTOH dealer.

While installing optional items, be sure to switch OFF the power of the printer and pull out the power plug. It could lead to an electric shock.

Wire the various codes (cable) as explained in the User's Guide. Wrong wiring could cause fire.

Be sure to use the power cable supplied with the printer. If other power cables are used, it could cause an electric shock or fire.

Make sure to use only the specified power supply (AC 100 V - 120 V or AC 220 V - 240 V). If a power supply other than the specified voltage is used, it could cause an electric shock and fire.

Take power for the printer directly from the power socket (AC 100 V - 120 V or AC 220 V - 240 V). Do not use complex multiple plugs on the same socket. This could generate heat and might cause fire.

Be sure to use a dedicated power socket with earth wire for the power supply, and connect it to the earth wire. If the earth wire is not connected, an electric shock or fire may occur.

The waste fluid from the printer should be considered as industrial waste. Proper waste fluid disposal according to industrial waste disposal laws of your local governments are required. Consign disposal of waste fluids to specialized processor.

⚠ Caution ⚠

Pay attention to the following points, while handling the power cable.
- Do not place or keep heavy objects on the power cable.
- Do not bend, twist or pull the power cable by force.
- Do not route the power cable near heating appliances.

Pay attention to the following points while handling the power supply plug. Any mishandling of the power cable could cause a fire.
- Make sure that no foreign substances such as dust etc. are stuck to the power plug.
- Make sure that the power plug is firmly inserted to the edge of the power socket.

While handling the ink cassettes, pay attention so that the ink does not get into your eyes or stick to your skin. If the ink gets into your eyes or sticks to your skin, immediately wash off with water. It might possibly cause irritation and light inflammation of your eyes. In cases of any abnormality, consult a physician immediately.

Do not disassemble the ink cassettes. If disassembled, there is a possibility that the ink might come into contact with your eyes or skin.

Be careful to see that your fingers are not caught in-between opening and closing the media cover.

Do not operate the media set lever during printer initialization. If the carriage portion and the pressurizing roller portion touch each other, there is a possibility that the printer may break down.

Do not touch the media guide during printing. It is hot and may cause burns.

Do not touch the media feed slot, platen or media guide while heaters are operating. They are hot and may cause burns.

Do not use volatile solvents such as thinner, benzene, or alcohol on the printer. These could damage the paint.

Be careful that moisture does not enter the printer. There is a possibility that the electric circuits inside the printer might get short circuited.

Do not open covers attached with screws under any circumstance. This could cause an electric shock or printer breakdown.

While cleaning with the wiper
- Do not touch the wiper and head cap unit.
  Head cleaning may not be executed correctly because of the grease attached.
- Make sure to wipe the print head with a dry poly-knit wiper.

Do not make the main body of the printer slanting or place it in a vertical position or do not keep the printer upside down. There is a possibility that ink inside the printer may leak. Moreover, normal operation after shifting (to these positions) cannot be guaranteed.

Opening and moving the printer to the installation place should be done by :
- VJ-1204: 2 or more persons

While taking out the printer from the container box, make sure to remove the vinyl sheet and hold the handles on the printer side. If the printer is lifted with the vinyl sheet attached, there is a possibility that it might fall and might be damaged.

Installation of the stand to the printer should be done by :
- VJ-1204: 2 or more persons

While installing the stand, be sure to switch OFF the printer power and to pull out the power plug. It could lead to an electric shock.

If the printer is not used for a longer period, make sure to pull out the power plug from the power socket for safety reasons.

Make sure to connect an earth wire to the earth connection which meets the following standards :
- Earth terminal of power socket
- Earth wire with copper plate which is buried at a depth of 650 mm or more.

Set the roll media on an even surface such as a desk etc. If the roll media is set in such a way that the scroller is standing vertically, there is a possibility that the scroller might get damaged.

Keep the working area well-ventilated.

When printing is finished, the media guide is at high temperature. Wait until the media guide cools off.

Pay attention to the following points when you cut roll media. Mishandling the razor blade may cause an injury on your finger or hand.
- When you hold media, do not place your finger on the media cut groove.
- Move the razor blade along the media cut groove.

Be sure to switch OFF the power, and disconnect the power plug when cleaning the printer.

Move the printer maintaining it in a horizontal position.

1.4 WARNING LABELS

In this section, the handling, location and types of warning labels are explained.
A warning label is used on parts of the printer which especially need caution. Understand the locations and the descriptions of the danger associated with each label before operating the printer.

1.4.1 Handling the operation procedure labels

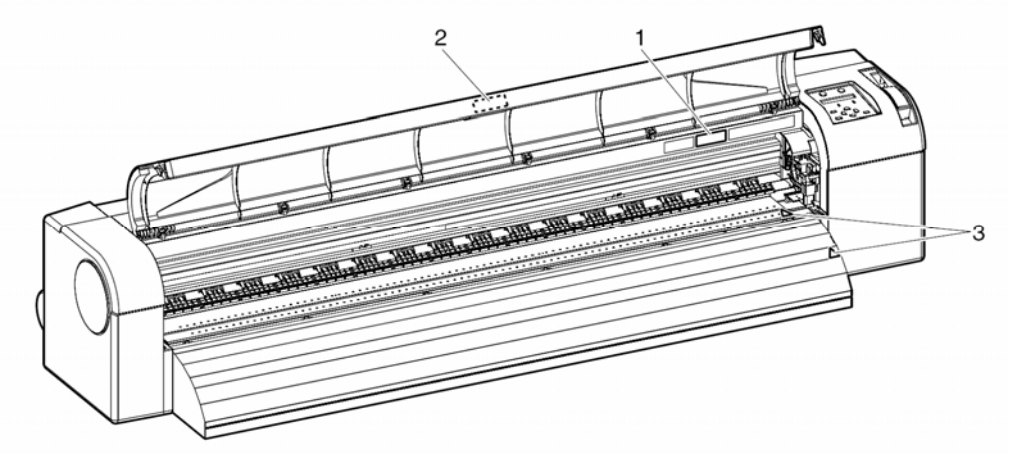
When handling the warning labels, be careful about the following points.

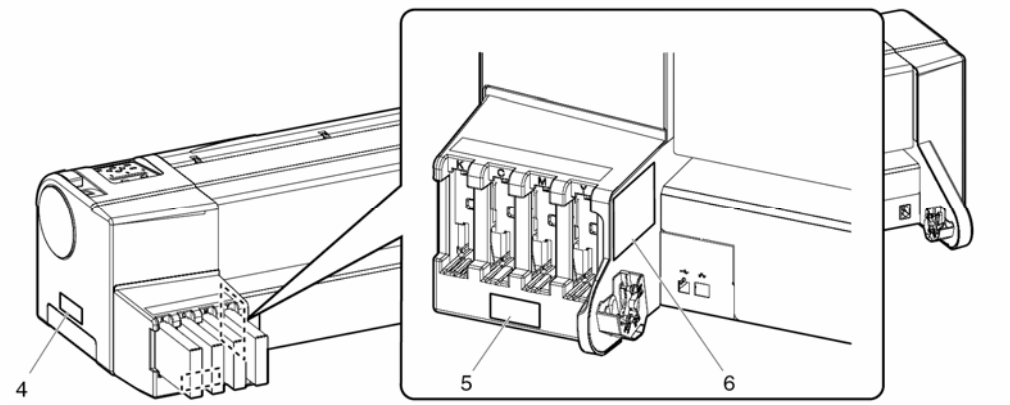
⚠ Notes ⚠

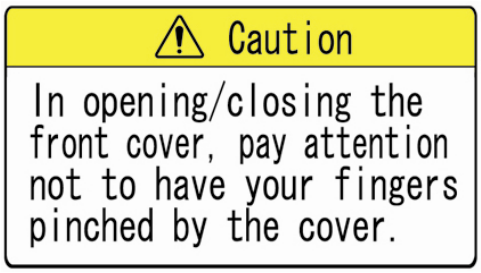
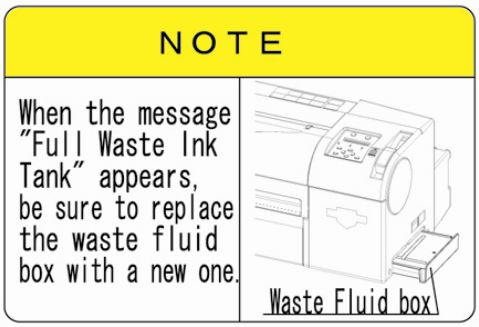
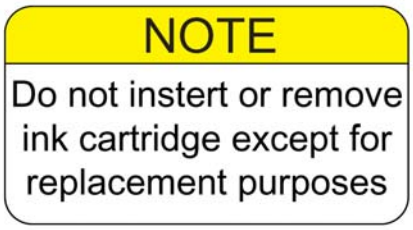
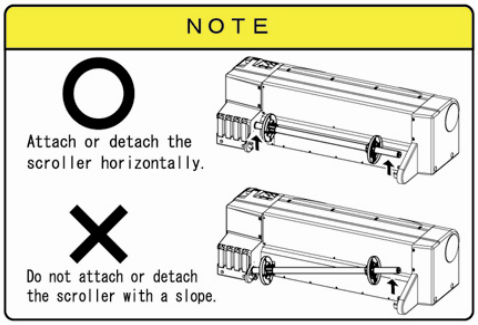
- Check whether all the warning labels can be read. If the letters or illustrations on the label are not clear, remove the dirt from the label.
- Use cloth, water and neutral detergent for removing dirt from a warning label. Avoid using either organic solvents or gasoline.
- It is necessary to replace the labels if they are damaged, lost or illegible.
  If the warning labels have to be replaced, contact your local MUTOH dealer.

1.4.2 Locations and types of warning labels

Locations of the warning labels are shown in the following figures.





No.	Types of warning label
1	
2	
3	
4	
5	
6	

1.5 OPERATION PROCEDURE LABELS

In this section, the handling, location and types of operation procedure labels are explained. Operation procedure labels contain items for which the operator should be particularly careful while operating the printer.

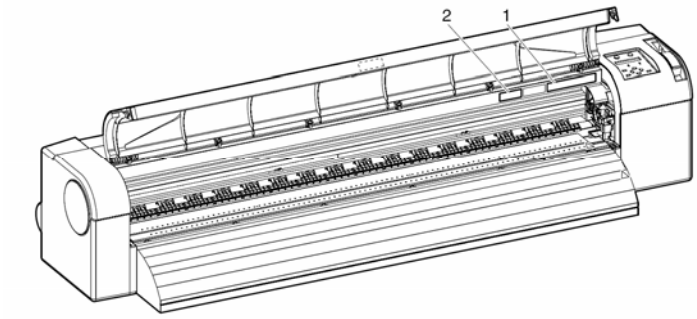
1.5.1 Handling the operation procedure labels

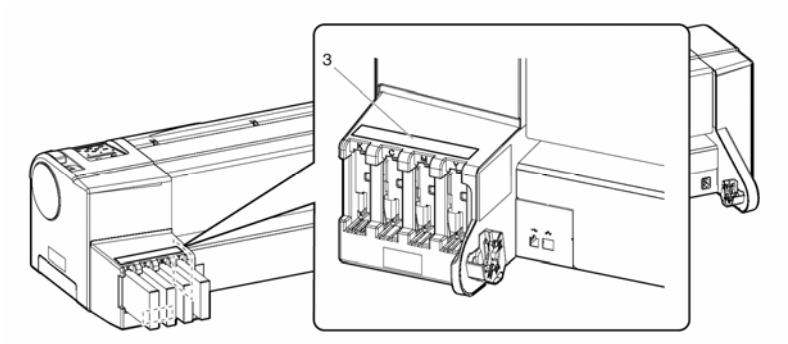
Be careful about the following points, when handling the operation procedure labels.

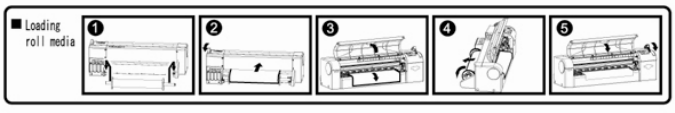
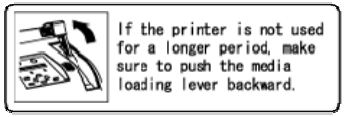
⚠ Notes ⚠

- Check whether all operation procedure labels can be read. If the letters or illustrations on the labels are not clear, remove the dirt from the label.
- Use cloth, water and neutral detergent for removing dirt from an operation procedure label. Avoid using either organic solvents or gasoline.
- It is necessary to replace the labels if they are damaged, lost or illegible.
  If the operation procedure labels have to be replaced, contact your local MUTOH dealer.

1.5.2 Locations and types of warning labels





No.	Types of operation procedure labels
1	
2	
3	

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2 PRODUCT OVERVIEW

2.1 FEATURES 18

2.2 NAME OF THE PARTS AND FUNCTIONS 19

2.2.1 Front section 19

2.2.2 Rear section 20

2.2.3 Operation panel 21

2.3 PRINTER MODE 24

2.3.1 Normal mode 24

2.3.2 Menu mode 24

2.3.3 Changing the printer mode 24

This chapter explains the features of the printer, and the names and functions of each part.

2.1 FEATURES

In this section, the main features of the printer are explained.

(1) High-speed output
The ValueJet 1204 printer incorporates a new type high speed drop on demand piezo inkjet head.
It offers printing widths up to 1219 mm at one-pass printing and 1200 mm at two-pass printing for VJ-1204.

(2) Wide variety of compatible media
The head is adjustable to two height levels and offers compatibility with maximum media thicknesses of 0.3 mm.

3) Vibrant colour reproduction
ValueJet 1204 utilizes Mutoh's latest generation Eco-Solvent Ultra inks for indoor and outdoor applications. This printer uses 220 ml of eco solvent ink cassettes with a dedicated IC chip. The ink level inside of the ink cassettes is monitored by the printer for maximum productivity

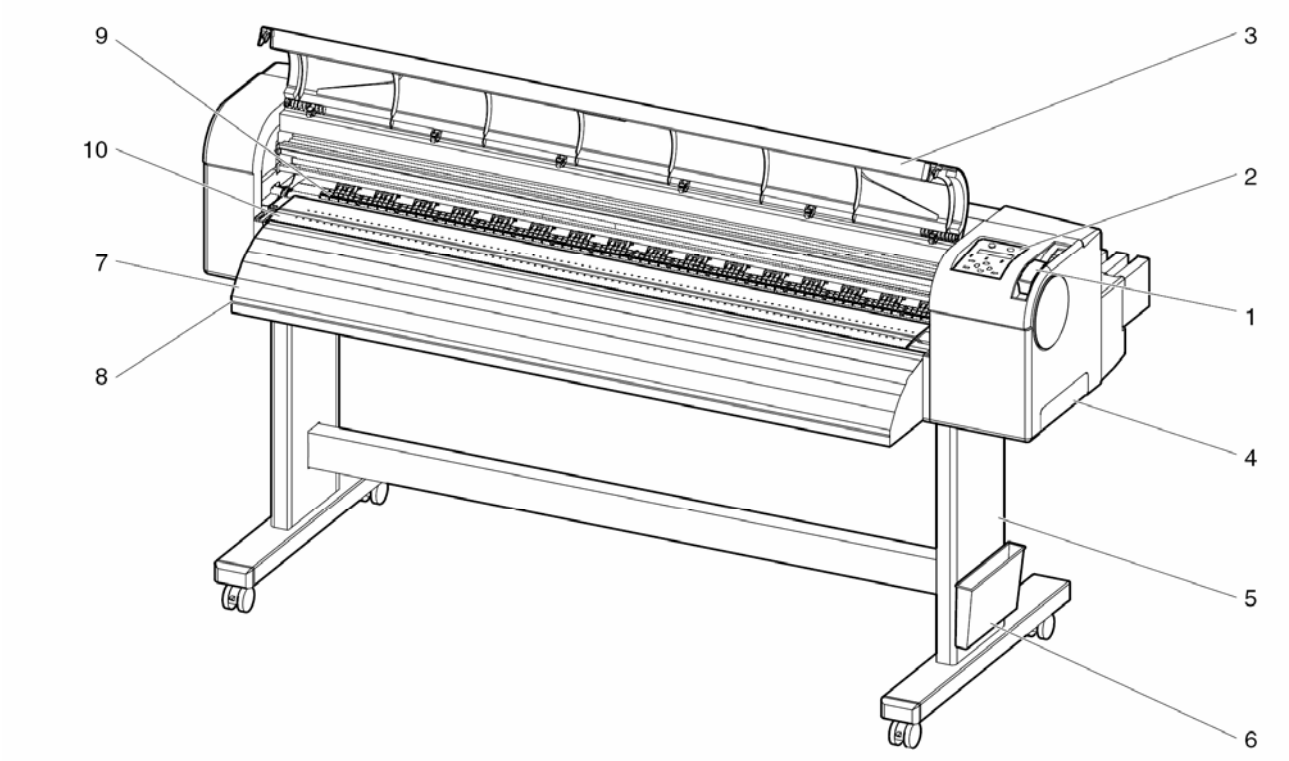
(4) Multi-heater
Heaters are installed at three locations (pre-heater, fixer (platen), dryer) allowing the eco solvent ultra ink to optimally fix on the media and dry quickly.

(5) Effective use of media
A JOG feature is provided to allow setting of the print starting position as required. Printing can be performed on media that has already been printed on. This allows effective use of left margins.

2.2 NAME OF THE PARTS AND FUNCTIONS

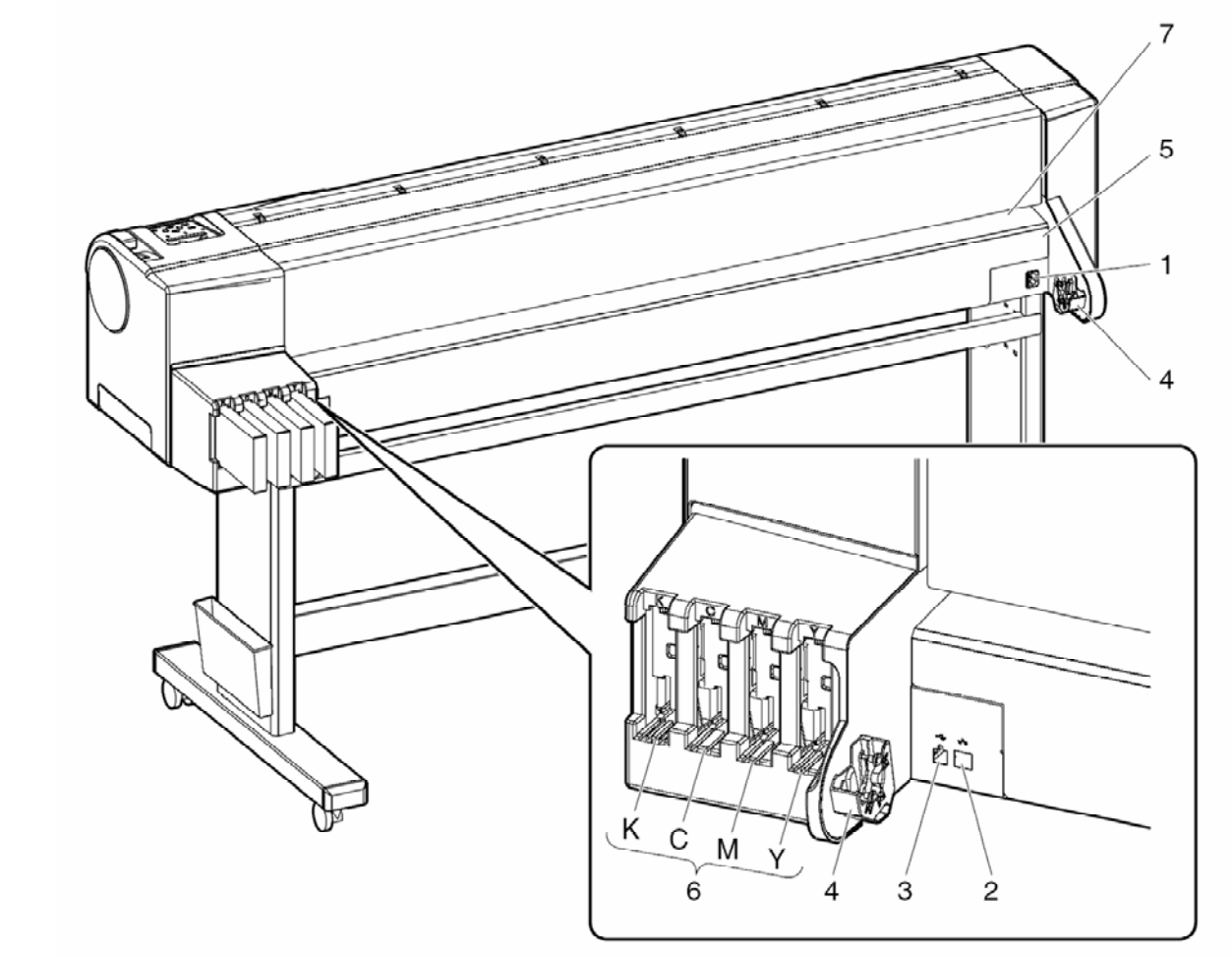
In this section, the names and functions of each part are explained.

2.2.1 Front section



N°	Name	Function
1	Media hold lever	To fix and release media.
2	Operation panel	To set the operation conditions and various function settings.
3	Front cover	To protect the user from coming in contact with the driving mechanism during operation.
4	Waste fluid tank	To collect the printer's waste ink.
5	Stand	To install the printer on a levelled floor.
6	Book holder	To store printer documentation.
7	Media guide	To guide the media smoothly through the printer. The printer also has an incorporated heater to dry the ink on the media.
8	Media cut groove	To guide a knife straightly when cutting off the media.
9	Pressurizing lever	Press and hold the media when printing.
10	Platen	To guide the media smoothly through the printer. The printer also has an incorporated rest heaters to fix the ink on the media.

2.2.2 Rear section



No.	Name	Function
1	AC inlet	To connect the power cable.
2	Network interface connector	To connect the network interface cable.
3	USB connector	To connect the USB cable.
4	Scroller receiver	To install the scroller with roll media.
5	Media feed slot	To insert roll media.
6	Ink cassette slots	To install the ink cassettes.
7	Media guide	Used for smoothly feeding through media when the media is set or printed. The ValueJet 1204 printer also incorporates a pre-heater element to warm up the installed media before printing.

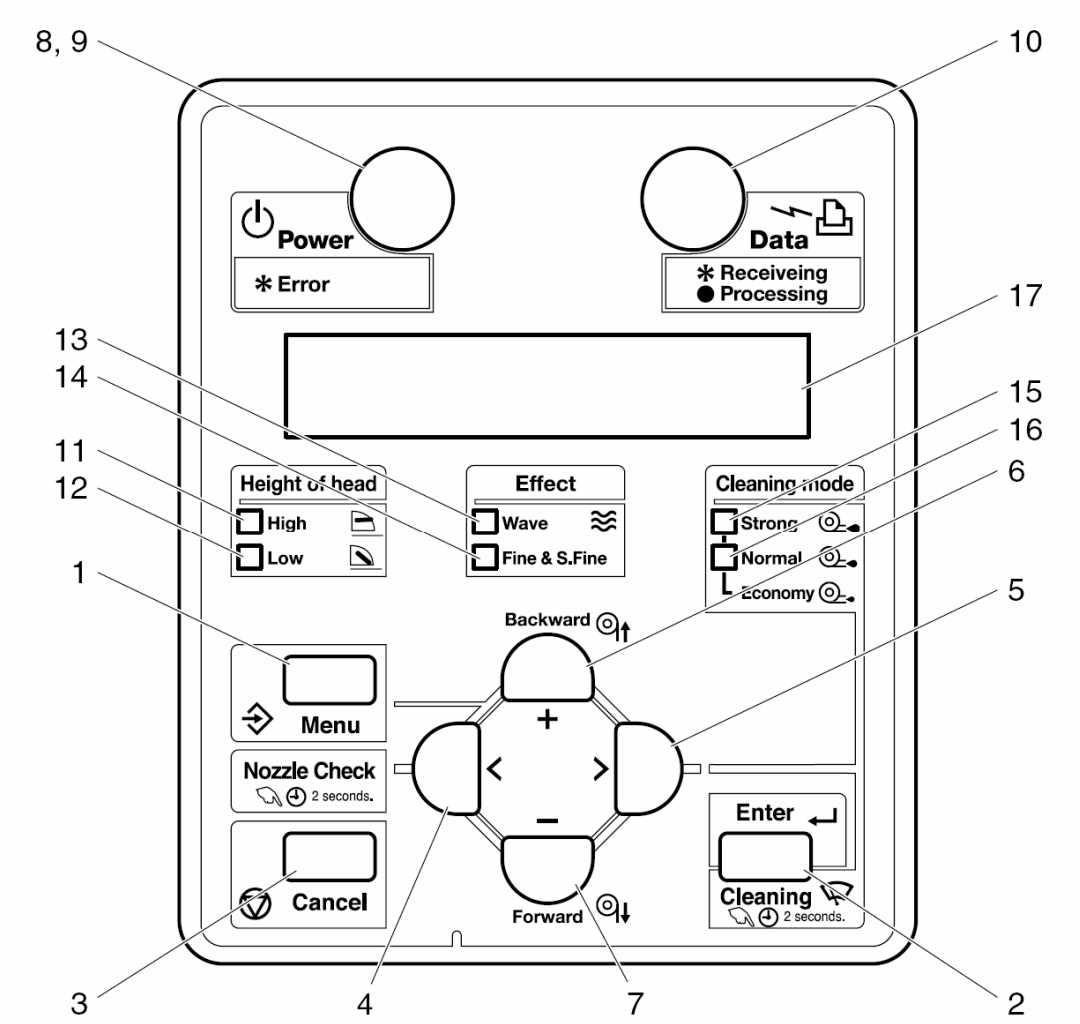
2.2.3 Operation panel

This section explains the name and the function of each operation key and status light.

⚠ Notes ⚠

Refer to the following for details regarding the operation method of the operation panel.

- When performing menu settings from the operation panel: **Menu setup on the operation panel**
- When performing various operations on the operation panel: **Operating from the operation panel**



The operation keys have 2 different functions, depending on the printer mode:

Mode	Key functions
Normal mode	Various functions for printing can be performed on the operation panel.
Menu mode	Various setup items (e.g. IP address, etc…) can be set on the operation panel.

For details on the printer mode, refer to "Printer mode".

(1) Operation keys in the Normal mode

No.	Key	Function
1	[Menu]	Changes to Menu mode.
2	[Enter]	--
	[Cleaning]	Cleans the printer head when pressed for two seconds or more.
3	[Cancel]	During printing: Printing is terminated and the remaining data is deleted. During receiving/analysis: Data that has been received and analysed already is deleted and the data which is being received of the next print file is ignored. Ink dry timer wait: Ink dry timer wait is cancelled and the media is ejected.
4	[<]	--
	[Nozzle Check]	Press and hold this key for two seconds or more to print a nozzle check
5	[>]	Sets Cleaning Mode. The indication lights of Cleaning mode light up in green.
6	[Backward feed↑]	Feeds the media in reverse direction.
	[Setting value +]	--
7	[Forward feed↓]	Feeds the media in forward direction.
	[Setting value-]	--
8	[Power]	Switches the printer ON / OFF.

(2) Operation keys in the Menu mode.

No.	Key	Function
1	[Menu]	Shifts from Menu mode to Normal mode.
2	[Enter]	Selects a specific menu or submenu. The value is entered and saved.
	[Cleaning]	--
3	[Cancel]	Returns to the previous level in the menus structure. Changes in the setup value will not be saved. Shifts from the Menu mode to Normal mode.
4	[Back]	Goes to the previous menu.
5	[Next]	Goes to the next menu.
6	[Backward feed↑]	--
	[Setting value +]	The numerical value is increased.
7	[Forward feed↓]	--
	[Setting value-]	The numerical value is decreased.
8	[Power]	Switches the printer ON / OFF.

⚠ Notes ⚠

- For details on how to work with the operation panel, refer to the following topics :
  - o When working in the Menu mode.
    Refer to: "Menu setup on the operation panel".
  - o When working in the Normal mode.
    Refer to: "Operating from the operation panel".

(3) Status lights

No.	Light	Colour	Status	Description
9	Power	Green	Light ON	Power ON.
			Light blinks	An error has occurred. The error message is displayed on the LCD.
			Light OFF	Power OFF.
10	Data	Orange	Light ON	Analyzing received data. Printing.
			Light blinks	Receiving data.
			Light OFF	Data is not received / analyzed.
11	High	Green	Light ON	Height of head is set to High
			Light OFF	Height of head is set to Low
12	Low	Green	Light ON	Height of head is set to Low
			Light OFF	Height of head is set to High
13	Wave	Green	Light ON	Printing effect is set to Wave.
			Light OFF	Printing effect is set to Fine & Super Fine.
14	Fine & Super Fine	Green	Light ON	Printing effect is set to Fine & Super Fine.
			Light OFF	Printing effect is set to Wave.
15	Strong	Green	Light ON	Cleaning mode is set to Strong
			Light OFF	Cleaning mode is set to Normal
16	Normal	Green	Light ON	Cleaning mode is set to Normal
			Light OFF	Cleaning mode is set to Strong
17	LCD display section	--	--	Operation status of the printer or error message is displayed.

⚠ Notes ⚠

- When an error requiring a restart (fatal malfunction of the printer operation) occurs, all lights will blink.
- Contact your local MUTOH dealer if the malfunction cannot be solved.
- For more information please refer to: "Error requiring a restart".

2.3 PRINTER MODE

This section explains the printer modes of the printer and how to change them.

2.3.1 *Normal mode*

The printer is ready to print.

- The media has been loaded and the media type has been set.
- Various functions for printing can be performed on the operation panel.
- The message 'Ready to print' is shown.

2.3.2 *Menu mode*

In this mode, various setup items (IP address, etc…) can be set on the operation panel.

⚠ Notes ⚠

- Essential settings for normal printing can be modified / set on the printer driver or the graphics application software, or via the operation panel.

2.3.3 *Changing the printer mode*

(1) Changing from Normal mode to Menu mode.

Action: Press the [Menu] key on the operation panel.

Result: The display is in 'Menu' mode', from now on called the 'Setup Menu display'.
The following message is shown: "Menu 1: Setup>".

(2) Changing from Menu mode to Normal mode

Action: Press the [Cancel] key on the operation panel.

Result: The printer returns to the Normal mode.

⚠ Notes ⚠

- When the printer is in Menu mode and the keyboard remains untouched for 3 minutes, the printer will automatically return to Normal mode.

⚠ Notes ⚠

- For details on Status messages, refer to Status messages.
- For details on the Setup menu, refer to Menu setup on the operation panel.

3 INSTALLING THE UNIT

3.1 INTRODUCTION 26

3.2 INSTALLATION SPACE 26

3.3 INSTALLATION PROCEDURE 27

3.4 POWER CABLE CONNECTION 28

3.4.1 Important notes and cautions 28

3.4.2 Connection procedure 29

3.5 SWITCHING THE POWER ON / OFF 30

3.5.1 Switching the power ON 30

3.5.2 Switching the power OFF 31

3.6 INSTALLING INK CASSETTES FOR THE FIRST TIME 32

3.6.1 Replacing ink cassettes 35

3.7 CONNECTING THE PRINTER TO THE PC 38

3.7.1 System requirements 38

3.7.2 Selecting cables 38

3.7.3 Connecting network interface cable 38

3.8 TRANSFER AND TRANSPORTATION 40

3.8.1 Transferring the printer 40

3.8.2 Transporting the printer 42

3.1 INTRODUCTION

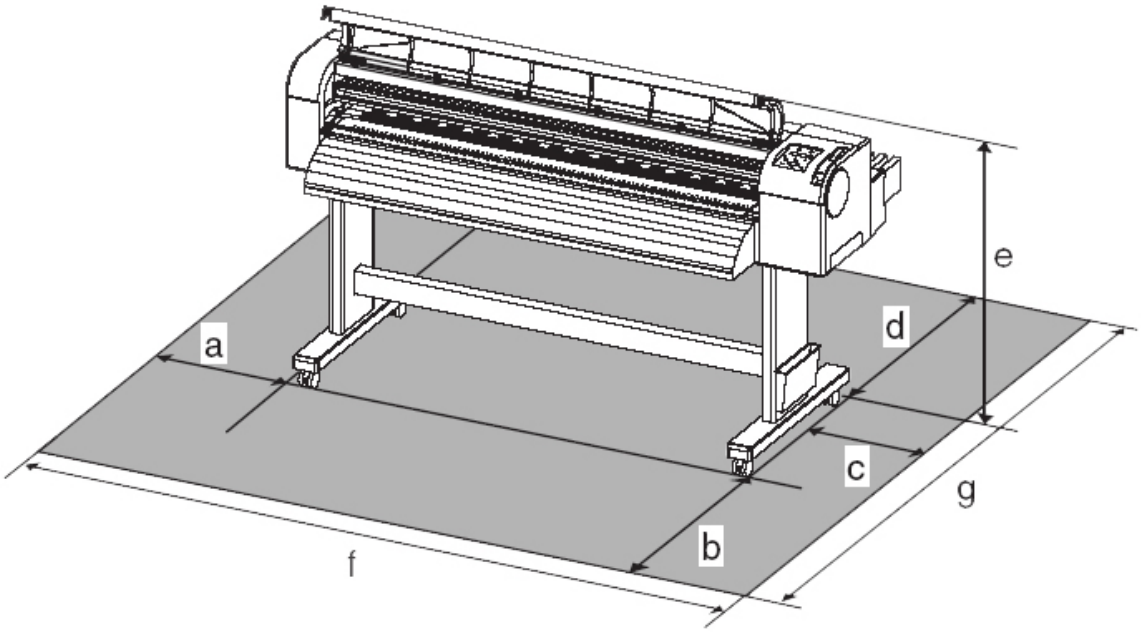
This section explains how to fully install the assembled printer. For further information on how to assemble your ValueJet printer, please refer to the Installation Guide.

3.2 INSTALLATION SPACE

Install on a level floor which meets the following conditions.
It has enough strength to support the weight of the printer and the stand

⚠ Notes ⚠

- For the weight of the printer and the stand, refer to the Operation Manual.



A	500 mm	E	1440 mm
B	1000 mm	F	3000 mm
C	1000 mm	G	2660 mm
D	1000 mm		

3.3 INSTALLATION PROCEDURE

Installation procedure when using the network connection

Starting point: ASSEMBLED VALUEJET

↓

Step	Action	Reference
1	Connect the power cable.	Power Cable Connection
2	Install the ink cassettes.	Installing ink cassettes for the first time
3	Connect the printer to the PC.	Connecting network interface cable

↓

Result: FULLY- INSTALLED VALUEJET

3.4 POWER CABLE CONNECTION

3.4.1 *Important notes and cautions*

⚠ Important ⚠

- **Make sure that the power cable supplied with the printer is used. Use of a different cable may result in an electric shock or fire.**
- **Do not use a damaged power cable. Doing so may result in an electric shock or fire.**
- **The printer's disconnect device is the plug on the power cable.**

⚠ Important ⚠

- **Do not attempt to plug in electrical plugs with wet hands. Doing so may result in an electric shock.**
- **Be sure to use the specified voltage (AC 100V-120V/220V-240V). Otherwise, an electric shock or fire may occur.**
- **Use electricity directly from a power outlet (AC 100V-120V/220V-240V). Do not put many loads on one electrical outlet. Otherwise, heat may be generated, causing fire.**
- **Be sure to use an outlet with an earth terminal, and to use the terminal correctly. Otherwise, electric shock or fire may occur.**
- **Do not connect earth cables to :**
  - **Gas pipes. Doing so may cause fire or an explosion.**
  - **Earth terminals for telephone lines or lightning rods. Doing so may cause a large flow of voltage if lightning occurs.**
  - **Water pipes or faucets. If there is a plastic part in the pipe, the grounding will not work correctly.**

⚠ Caution ⚠

- **Follow the instructions below when handling the power plug. Otherwise, fire may occur.**
  - **Wipe away dust and any other residue before inserting the plug.**
  - **Ensure that the plug is firmly inserted as far as it will go.**
- **Ensure that the plug has been disconnected from the power socket when it is not used for a long time.**
- **Earth wires must be connected to wires or terminals that fulfil the following conditions :**
  - **Power sockets with earth terminals.**
  - **Earth wires with copper, at least 650 mm under the ground.**

⚠ Caution ⚠

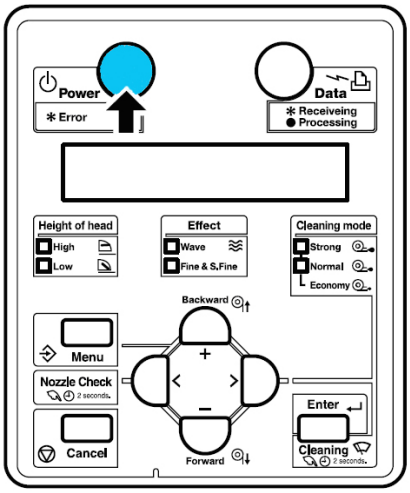
- **Be careful when handling the power cable :**
  - **Do not make any modifications to the power cable.**
  - **Do not place anything heavy on the power cable.**
  - **Do not bend, twist, or pull the cable.**
  - **Do not wire the cable near equipment that generates heat.**

⚠ Notes ⚠

- When the power of the printer is ON, do not pull out the power cable from the power socket. Whenever the plug is pulled out from the power socket, allow one minute or more before inserting the plug in the power socket again.
- Contact your local Mutoh technician, when the earth connection cannot be established, or when the earth connection is not given.

3.4.2 Connection procedure

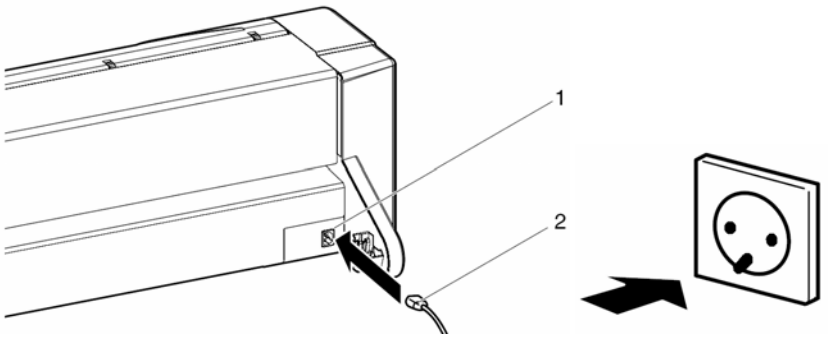
Step 1 : Make sure that the power key is switched OFF.



⚠ Notes ⚠

- The power is switched ON when the [Power] key of the operation panel is pressed. In that case, press the key once again to switch OFF the power.

Step 2 : Plug the power cable to the AC inlet at the back of the printer.



No.	Name
1	AC inlet
2	Power cable

⚠ Notes ⚠

- If the power cable is damaged, contact your local MUTOH dealer.

⚠ Notes ⚠

- If you cannot use earth terminals nor find any of them, contact your local Mutoh distributor.
- Do not unplug the power cable when the printer is on. If the power cable has been unplugged, leave the printer for at least 1 minute before plugging the cable in again.

3.5 SWITCHING THE POWER ON / OFF

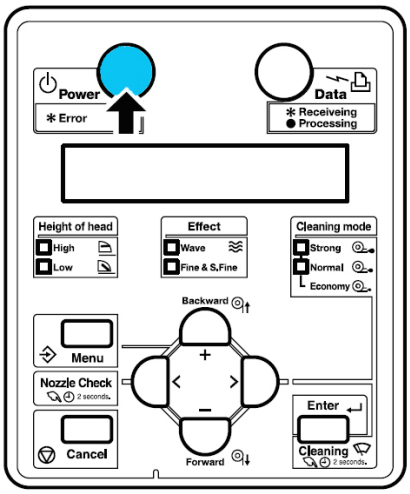
This section explains how to switch ON/OFF the printer.

3.5.1 Switching the power ON

Follow the procedure below to switch ON the printer.

Step 1 : Press the [Power] key on the operation panel to switch ON the printer.

- The Power indication light on the operation panel lights green.



- The printer starts initializing.
- When the initialization is completed, the printer enters its normal status.

⚠ Notes ⚠

- If there is a problem during initial operation, the printer will displays a message on the operation panel and may stop operating.
  In case operation stops, refer to "Troubleshooting" and deal with the problem.

3.5.2 Switching the power OFF

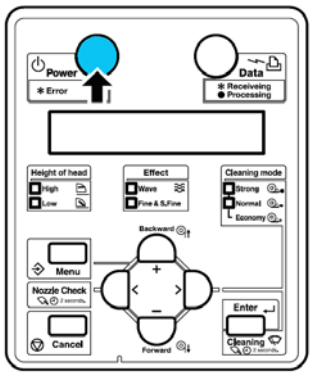
Follow the procedure below to switch OFF the printer.

Step 1 : Before powering off, be sure that:
- Printing or other operations are stopped or finished.
- The printer (and operation panel) is in normal mode.

Step 2 : Press the [Power] key on the operation panel to switch OFF the printer.
- The Power indicating light on the operation panel switches off.

⚠ Notes ⚠

- If the operation panel is in the following status, the power is ON.
  - The [Power] key is pressed in.
  - The [Power] indication light lights up in green.
  - Press the key once again to switch OFF the power.

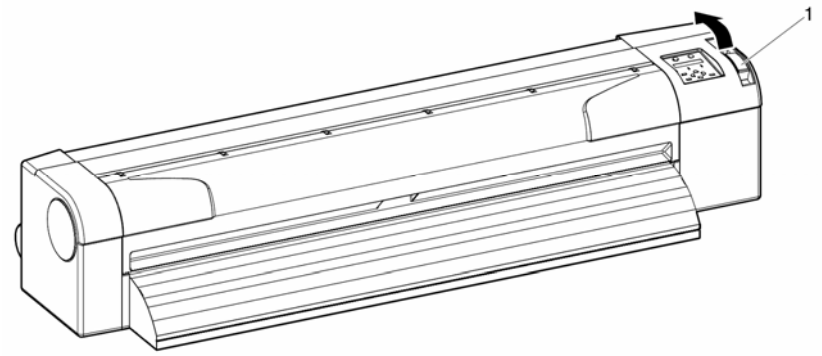


- "Power Off" is displayed on the operation panel.
- All the indication lights on the operation panel and the LCD monitor are switched off.
- The printer automatically switches the power OFF.

⚠ Notes ⚠

- If there is a problem during the Power off sequence, the printer will display a message on the operation panel and may stop operating.
  In case operation stops, refer to **"Troubleshooting"** and deal with the problem.
- After switching OFF the printer, wait for 10 seconds or longer to switch it ON again.

Step 3 : Raise the media hold lever after the powering OFF cycle. This in order not to damage the media due to the pressure of the grid rollers.



No.	Name
1	Media hold lever

3.6 INSTALLING INK CASSETTES FOR THE FIRST TIME

⚠ Caution ⚠

- **When handling ink cassettes, be careful not to get ink into your eyes or on your skin. However, if this happens, flush immediately with water. Otherwise, your eyes may become inflamed slightly. If you feel discomfort, consult a doctor immediately.**
- **Do not disassemble ink cassettes. Otherwise, ink may get into your eyes or on your skin.**
- **Do not shake ink cassettes. Doing so may cause ink leakage.**

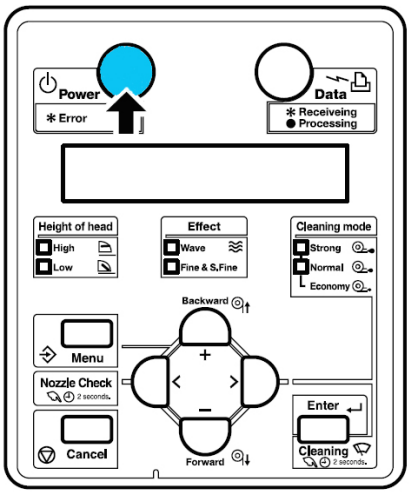
⚠ Notes ⚠

- When filling ink in the machine, use Mutoh original Eco-Solvent Ultra inks only.
  This printer has been fine tuned for use of genuine ink cassettes. In case of non original ink cassettes are used. Printing might become blurred and the end of ink in the cassette might no longer be correctly detected.
  The problems caused by doing so will not be covered by the warranty and repair expenses will have to be paid by the customer.
- Do not shake the ink cassettes strongly to avoid ink leaking out of the cassette.
- Do not disassemble the ink cassette. A disassembled ink cassette cannot be used.
- Make sure to use an original cleaning fluid (part No.: RJ80U-22-CLN).
- Before installing the ink cassette, shake it gently. Doing so will preserve printing quality.
- When storing the ink cassettes in a cold room, be sure to take them out of stock at least 3 hours before using them.
- Insert or remove the ink cassette not more than 10 times.
  If the ink cassette is inserted or removed 10 times or more, it can not be used even if there is some remaining ink inside.
- Each ink cassette has a dedicating smart chip recognising ink types, colour and ink level inside of the cassette. Taking out a cassette from its cassette slot during printing might result in damaging the smart chip, causing the cassette to become obsolete.

To install the ink cassettes, follow the steps below.

Step 1 : Switch ON the printer.

- The printer starts initialization.
- The operation panel displays "[KCMY] Discharged".

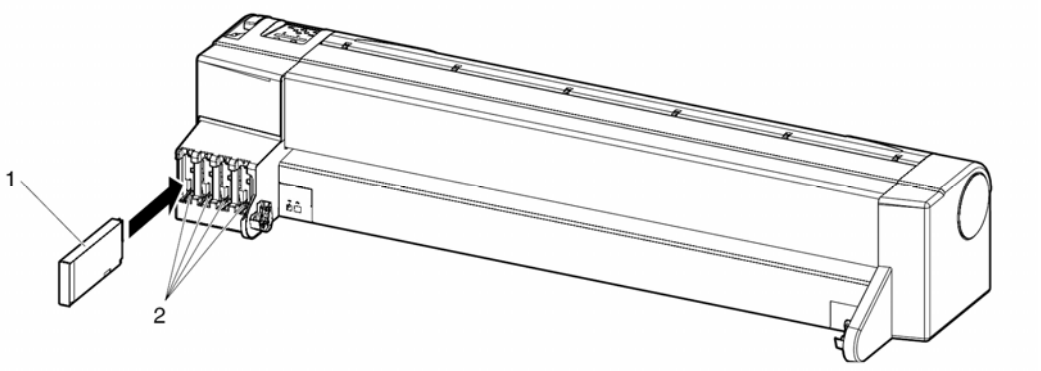


After the initial operation is complete, "Insert CleaningCart." is displayed on the operation panel.

Step 2 : Take out the cleaning cassette from the solvent resistant blister.

Step 3 : Install the cleaning cassette into the ink cassette slot.

- Keep the ▲ mark of the cleaning cassette facing up and insert it into the slot of the printer.
- Insert the cleaning cassette to the end of the slot.



No.	Name
1	Cleaning cassette
2	Ink cassette slot

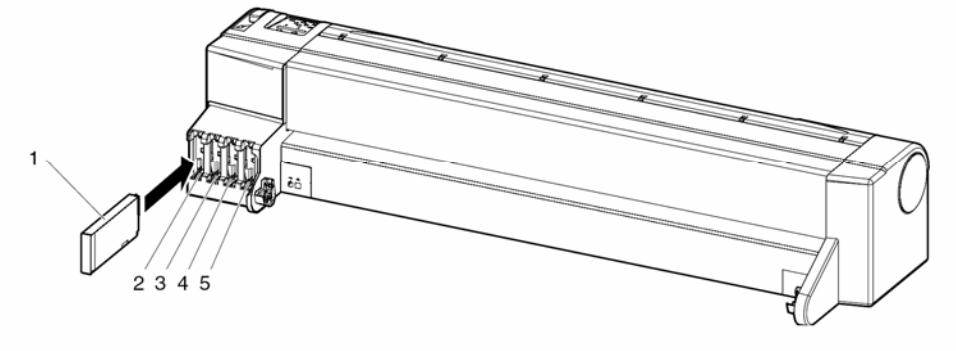
- The printer starts filling cleaning fluid.

Step 4 : After cleaning fluid has been filled, take out the cleaning cassette.

- "During washing" is displayed on the operation panel and the printer starts head cleaning
- "Insert Ink cassettes" is displayed on the operation panel after the head cleaning.

Step 5 : Take out the ink cassette from the solvent resistant blister and shake it gently 2-3 times.

- The slots for the ink cassettes are specified depending on the colours of ink cassettes. Match the colour marked by the side of each slot with the colour of the ink cassette.
- Keep the ▲ mark of the ink cassette facing up and insert it into the slot of the printer.
- Insert the ink cassettes in the printer as follows :
- The ink cassettes must be inserted in a specific slot according to the type and colour used.
- Insert the cassettes with the arrow mark "▲" face-up and pointing to the rear of the printer.
- Insert the cassettes as far as possible.
- Install all four colours.



No.	Name
1	Ink cassette
2	Ink cassette slot K
3	Ink cassette slot C
4	Ink cassette slot M
5	Ink cassette slot Y

⚠ Notes ⚠

- The ValueJet ink cassettes have been developed in such a way that miss-insertion is not possible. For each colour, a different design is used, i.e., fins are placed at the outside of each cassette, at different locations, depending on the ink colour used.

Result: The operation panel displays "Ink Refill **%", and the initial ink replenishment starts.

- The ink replenishment takes about five minutes. Initial ink replenishment and pause operation are repeated during initial filling.
- After the ink replenishment is completed, when "100%" is displayed, the operation panel displays "Paper End".

⚠ Notes ⚠

- During ink filling :
  - Do NOT switch off the printer.
  - Do not pull out the printer power cable.
  - Do not open the front cover.
  - Do not push the media hold lever to the back side.

⚠ Notes ⚠

- After an initial ink fill, the following can occur :
  - Printed lines become blurred.
  - White lines appear in the prints.
- If this is the case, perform a head cleaning, two to three times, as shown in **"Head cleaning"**, and check the results.
- If the quality of the printed image has not improved, even after performing head cleaning, then leave the printer unused for more than one hour. After that, perform a head cleaning again and check the printed image. If the quality still hasn't improved, than contact your local MUTOH dealer.

⚠ Notes ⚠

- Only use Mutoh original ink for ValueJet printers.
  This printer has been fine tuned for use of genuine ink cassettes. In case of using non genuine ink cassettes, notice the following :
  - Printing might become blurred and the end of ink in the cassette might no longer be correctly detected.
  - The problems caused by the use of non original ink cassettes will not be covered by the warranty and repair costs will be at the expense of the customer.
- When ink cassettes are moved from a cold place to a warm place, keep the ink cassettes unused for three hours or more in the printing environment.

3.6.1 Replacing ink cassettes

This section describes the replacement time and replacement method for the ink cassettes.

(1) Replacement time

a. When the operation panel displays "[KCMY] InkNearEnd"
- This message will be displayed when the ink level in an ink cassette gets low.
- Prepare the ink cassette for replacement

b. When the operation panel displays "[KCMY] Ink End"
- This message will be displayed when the ink in an ink cassette ran out.
  → Immediately replace the ink cassette with a new ink one.

⚠ Notes ⚠

- The display will indicate which ink colour has become low or ran out :
  - K: Black
  - C: Cyan
  - M: Magenta
  - Y: Yellow
- Only remove and insert ink cassettes at the time of replacement. Not doing so may result in incorrect printing behaviour due to failures such as nozzle loss, or air which might come in the ink tubes.
- If "Ink End" appears, it is not possible to print until the new ink cassette has been inserted.
- If there is no new ink cassette for replacement, then leave the empty ink cassette into the printer. Leaving the printer without ink cassettes inside the ink cassette slots may result in head clogging.

(2) Cassette Types

Our genuine ink cassettes that can be used for the ValueJet 1204 printer are as follows.

Description	Model No.
Ink cassette K (Black: 220ml)	RJ80U-22-BK
Ink cassette C (Cyan: 220ml)	RJ80U-22-CY
Ink cassette M (Magenta: 220ml)	RJ80U-22-MA
Ink cassette Y (Yellow: 220ml)	RJ80U-22-YE

⚠ Notes ⚠

- Only use Mutoh original ink.
  This plotter has been developed for use of genuine ink cassettes. In case of using non genuine ink cassettes, notice the following :
  - Printing might become blurred and the end of ink in the cassette might no longer be correctly detected.
  - The problems caused by doing so will not be covered by the warranty and repair expenses will have to be paid by the customer.
- When the ink cassette is moved from a cold place to a warm place, keep the ink cassette unused for three hours or more in the printing environment.

(3) Replacement steps

⚠ Caution ⚠

- **When handling ink cassettes, be careful not to get ink into your eyes or on your skin. However, if this happens, flush immediately with water. Otherwise, your eyes may become inflamed slightly. If you feel discomfort, consult a doctor immediately.**
- **Do not disassemble ink cassettes. Otherwise, ink may get into your eyes or on your skin.**

⚠ Notes ⚠

- Do not shake ink cassettes. Doing so may cause ink leakage.
- Do not disassemble the ink cassette. A disassembled ink cassette cannot be used.
- When an ink cassette is moved from a cold place to a warm place, keep the ink cassette unused for three hours or more in the printing environment.
- Do not refill the ink cassettes.
  Doing so may result in incorrect printing.
- Insert or remove the ink cassette at the time of replacement only.
  Inserting or removing ink cassettes except at the time of replacement may result in incorrect printing.

To replace ink cassettes, follow the steps below

Step 1 : Verify that the plotter has been switched ON.

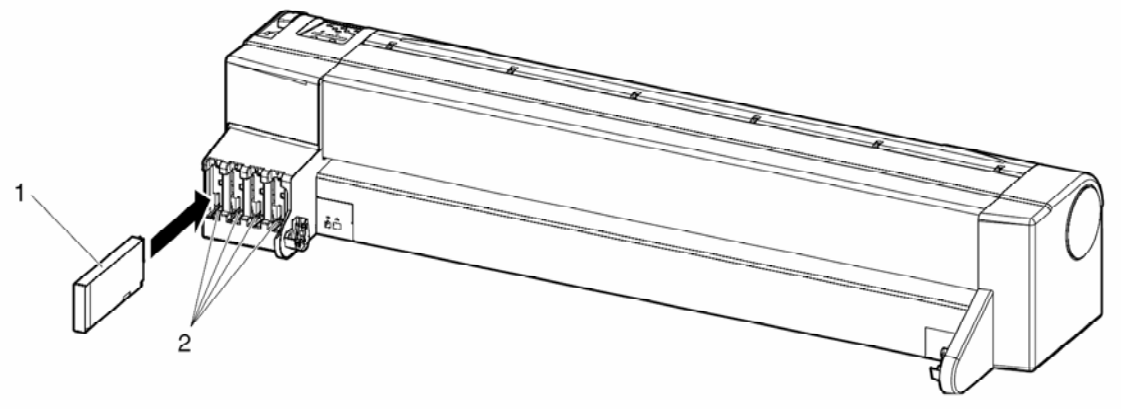
⚠ Notes ⚠

- Do not replace ink cassettes when the plotter is switched OFF. Doing so may result in incorrect detection of the remaining ink and result in abnormal printing behaviour.

Step 2 : Remove the empty ink cassette(s) (1) from the ink cassette slot (s) (2)

⚠ Notes ⚠

- A used ink cassette should be put in a vinyl bag or bag used for this kind of waste. Disposal of an ink cassette has to be done in compliance with the regulations and instructions of the local authorities.



Nr.	Part Description
1	Ink cassette
2	Ink cassette slot

Step 3 : Unpack the new ink cassette(s).

⚠ Notes ⚠

- Open the ink cassette solvent resistant blister just before attaching the ink cassette into the cassette slot. Leaving the ink cassette open for a long time may result in an abnormal printing.
- Use the ink cassettes within 2 years from the date printed on the package. Using an ink cassette after this period may affect the print quality.
- Replace the ink cassette within 6 months after installing it into the plotter.
- Insert or remove the ink cassette not more than 10 times. This to prevent that the smart chip or its reader would be worn out and malfunction in this way. If inserted or removed more then 10 times the ink cassette could malfunction even if there is some ink remaining.

Step 4 : Insert the new ink cassette(s)

Step 5 : Verify that the printer returns to Normal mode

⚠ Notes ⚠

- The plotter resumes printing when you have replaced (an) ink cassette (s) after an ink end occurred during printing.

3.7 CONNECTING THE PRINTER TO THE PC

In this section, the procedure to connect the printer to the PC is explained.

3.7.1 System requirements

For details about the system requirements, please refer to the documentation of the RIP software of your choice.

3.7.2 Selecting cables

The printer is equipped with a network interface and a USB interface to connect it with a PC.
A network interface cable or an USB cable is required to connect the PC with the printer.

⚠ Notes ⚠

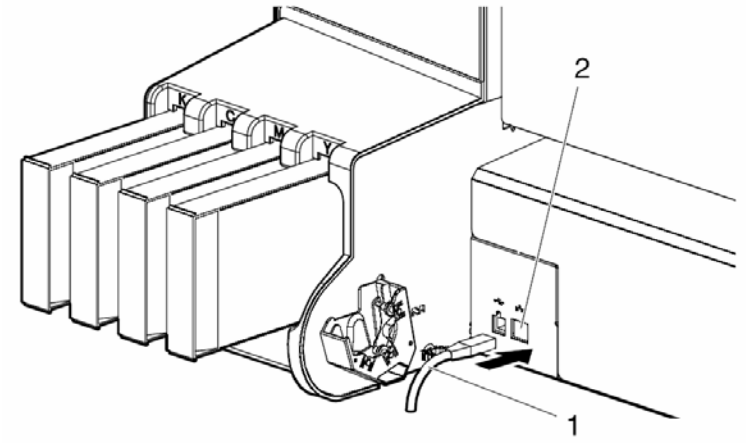
- For connecting the printer via a network interface cable, refer to "**Connecting network interface cable"**
- The USB connection is reserved for service technicians only.

3.7.3 Connecting network interface cable

To connect the printer to your PC with a network interface cable, follow the 4 steps below.

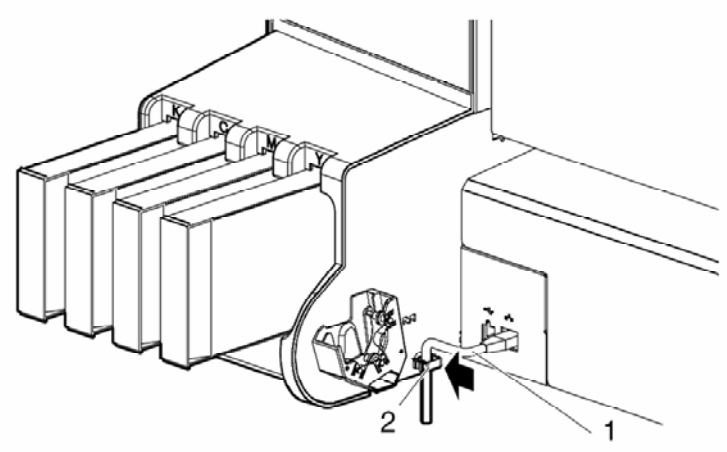
Step 1 : Switch OFF both the printer and the PC.

Step 2 : Plug the network interface cable (1) into the network interface connector (2) located at the back of the printer.



No.	Name
1	Network interface cable
2	Network interface connector

Step 3 : Secure the network interface cable (1) with the cable clip (2). See image below.



No.	Name
1	Network interface cable
2	Cable clip

Step 4 : Plug the other end of the network interface cable into your PC.

⚠ Notes ⚠

- Refer to the Operation Guide of your PC for information on connection possibilities.
- For network settings on the side of the printer, refer to **"Panel setup menu overview"**
- The USB connection is reserved for service technicians only.

3.8 TRANSFER AND TRANSPORTATION

This section describes the transfer and transportation of the printer.

3.8.1 *Transferring the printer*

⚠ Caution ⚠

- **Transfer the printer maintaining the horizontal position.**
- **Do not make the main body of the printer slanting or place it in a vertical position, nor keep the printer upside down. There is a possibility that the ink inside the printer may leak. Moreover, normal operation after shifting to these positions cannot be guaranteed.**

When using the dedicated stand, transfer the printer following the procedure below.

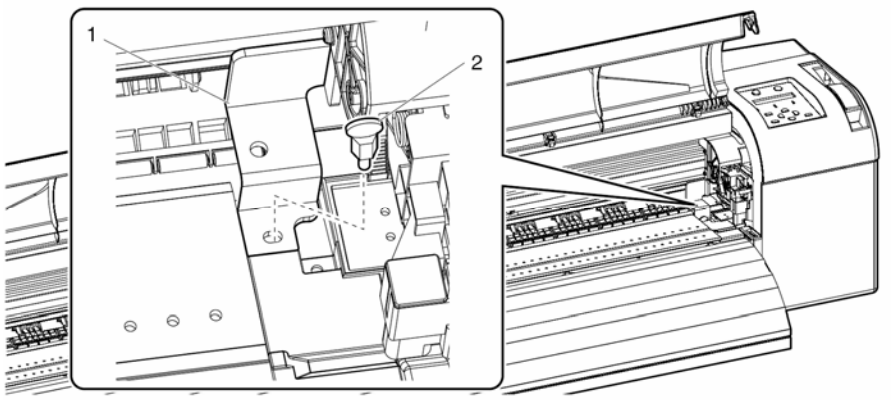
(1) Pre-transfer steps

Step 1 : Verify that the printer has been switched OFF.

Step 2 : Verify that the butterfly bolts attaching the stand with the printer, are not loosened.

Step 3 : Verify that the printer head is in the rightmost position.

Step 4 : Attach the protective material (metal plate) for attaching the head unit (1), and fix it with thumbscrews (2).



No.	Name
1	Protective material (metal plate) for attaching the head unit
2	Thumbscrew

Step 5 : Remove the scroller.

Step 6 : Unplug and remove all cables.

Step 7 : Release the lock of the caster wheels and transfer the printer.

⚠ Notes ⚠

- The casters supplied with the dedicated stand are manufactured for a small transfer on a plain surface. When moving the printer outdoors, and in places with big step differences, then move the stand and printer separately. For further details please refer to the Installation guide.

(2) Steps after transfer

After transfer, follow the steps below.

Step 1 : Choose a suitable place for installation and place the printer.
See "**Installation guide"**

Step 2 : Verify that the butterfly bolts fixing the stand with the printer are not loosened.

Step 3 : Connect all cables.

Step 4 : Perform a nozzle check, and verify that there is no clogging in the printer head.
See **"Nozzle check"**

Step 5 : Perform a head alignment.
See "**Adjust print"**

3.8.2 Transporting the printer

When transporting the printer, it is necessary to pack the printer as it was shipped, using the protective materials and packing materials to protect the printer from vibration and shocks.

⚠ Notes ⚠

- When transporting the printer, consult your MUTOH product dealer.

(1) Pre- transport procedure

Step 1 : Switch ON the printer.

Step 2 : Verify that the printer is in Normal mode.

Step 3 : Remove all ink cassettes.

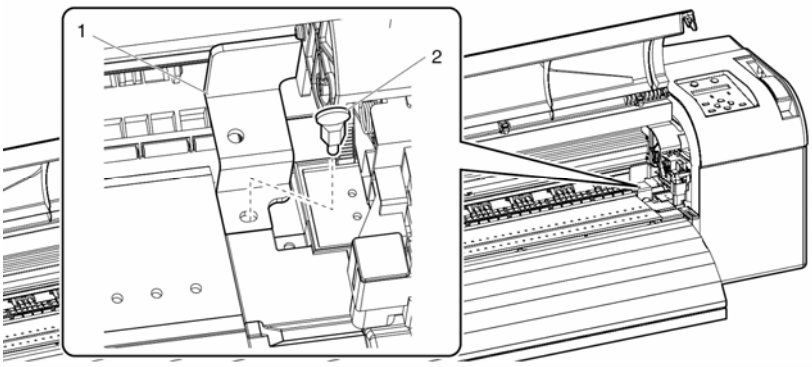
Step 4 : Switch OFF the printer.
- Result: The operation panel displays "Transport Mode", and the printer starts the ink rejecting operation.
- The ink rejecting operation takes about 2 minutes.

Step 5 : Verify that the power light faints when the ink rejection operations has been finished.

Step 6 : Remove the scroller.

Step 7 : Remove all cables.

Step 8 : Attach the protective material (metal plate) for attaching the head unit (1), and fix it with thumbscrews (2).



No.	Name
1	Protective material (metal plate) for attaching the head unit
2	Thumbscrew

Step 9 : Remove the printer from the stand. See **Installation guide**

Step 10 : Repack the printer.

(2) Post-transport procedure

Step 1 : Perform unpacking, assembling, and placing the printer. See **Installation guide**

Step 2 : Set the printer in an available condition. See "**Transferring the printer" and "Steps after transfer"**

4 HANDLING THE PRINTER

4.1 INTRODUCTION 45

4.2 MAKING THE PRINTER READY-TO-PRINT 45

4.3 USING MEDIA 46
4.3.1 Media type 46
4.3.2 Cautions on handling media 46
4.3.3 Precaution on storing media 47
4.3.4 The printing area 47
4.3.4.1 (1) Roll media 47
4.3.4.2 (2) Sheet media 47

4.4 HANDLING AND INSTALLING MEDIA 48
4.4.1 Installing roll media 48
4.4.2 Loading roll media 51
4.4.3 Setting media type 54
4.4.4 Head height adjustment 56
4.4.5 Media feed compensation 57
4.4.6 Replacing roll media 61

4.5 TEST PRINT 64
4.5.1 Overview and functions of the test prints 64
4.5.2 Performing a test print 64
4.5.3 Nozzle check 67
4.5.4 Mode Print 67
4.5.5 Setup print 68
4.5.6 Palette print 69

4.6 ADJUST PRINT 70

4.7 MENU SETUP ON THE OPERATION PANEL 74
4.7.1 Menu setup procedure 74
4.7.2 Panel setup menu overview 75

4.8 SETUP MENU 76
4.8.1 MediaType menu *77*
4.8.1.1 User media menu 77
4.8.1.2 Print Mode menu 78
4.8.1.3 Dist.Adj menu 78
4.8.1.4 (1) Init.Adj.Print menu 79
4.8.1.5 (2) Init.Adj.Change menu 79
4.8.1.6 (3) Confirm Print menu 79
4.8.1.7 (4) Micro Adj. Print menu 79
4.8.1.8 (5) Micro Adj.Change menu 79
4.8.1.9 Pre Heater menu 80
4.8.1.10 Fixer (platen) menu 80
4.8.1.11 Dryer menu 81
4.8.1.12 StandbyHeating menu 81
4.8.1.13 Vacuum Fan menu 81
4.8.2 Effect menu *82*
4.8.3 Flushing menu *82*
4.8.3.1 Flushing return count menu 82
4.8.4 Side Margin menu *83*
4.8.5 Media Initial menu *83*
4.8.6 Media Width / Media Width menu *83*
4.8.7 Origin menu *84*
4.8.8 Prev. Stick menu *85*
4.8.9 CR Movement menu *85*
4.8.10 Overwrite Cnt menu *85*
4.8.11 Overwrite Wait menu *86*
4.8.12 Slant Check menu *86*
4.8.13 Auto Cleaning menu *86*
4.8.14 Ink Status menu *87*
4.8.15 Roll Length menu *87*
4.8.16 Head Wash menu *88*
4.8.17 CR Maintenance menu *88*
4.8.18 Initialization menu *88*
4.8.19 Life Times menu *89*
4.8.20 IP Address menu *89*
4.8.21 Subnet Mask menu *89*
4.8.22 Gateway menu *90*

4.9 OPERATING FROM THE OPERATION PANEL 91
4.9.1 Feeding media *91*
4.9.2 Stop printing *92*
4.9.3 Cutting media *93*
4.9.4 Changing and confirming settings on the fly *94*
4.9.4.1 Procedure for changing and confirming set settings while printing 94
4.9.4.2 settings that can be changed or confirmed while printing 94

4.1 INTRODUCTION

This section describes how to make the fully-installed printer "ready-to-print". For details on how to obtain a fully installed printer, see chapter **"Installing the unit"**

4.2 MAKING THE PRINTER READY-TO-PRINT

Starting point: FULLY- INSTALLED VALUEJET

↓

Step	Action	Reference
1	Choose the appropriate media.	**General info on usable media**
2	Install and load the media.	**Installing roll media** **Loading roll media**
3	Set the media type	**Setting media type**
4	OPTIONAL : Adjust the head height	**Head Height Adjustment**
5	Set the printing conditions.	**Menu setup on the operation panel**
6	OPTIONAL: Perform (a) test plot(s) and perform adjusting, cleaning and replacing actions when needed.	**Test Print**

↓

Result: READY-TO-PRINT VALUEJET

4.3 USING MEDIA

This section describes details on available media for the printer.

4.3.1 Media type

The type and quality of the media affect the results of drawing enormously. Refer to the description below and use the appropriate media for your purpose.
The following are the recommended media for the printer. Select the appropriate media for your purpose.

⚠ Notes ⚠

- For more information about the recommended media, contact your local MUTOH dealer.
- Problems that occur due to use of media other than those recommended are not guaranteed.

⚠ Notes ⚠

- When using recommended media, the setting values for the printing quality is set for each media type.
- When printing on media other than those specified, information regarding proper settings for the media type and settings for the product should be found on the instructions for the media. If not contact the supplier of the media.

4.3.2 Cautions on handling media

When you handle media, please pay attention to the following.

⚠ Notes ⚠

- Use recommended media in an appropriate environment. Following are the appropriate temperature and humidity ranges for printing.

	Temperature	Humidity
Recommended working environment	23°C	40% to 70%
Rate of change	Within 2°C per hour	Within 5% per hour

- Do not use creased, damaged, torn, curled, or wrapped media.
- The size of the recommended sheets can change at a fixed ratio according to the temperature changes of the working environment. Before using sheet media, place the sheet in the working environment for at least 30 minutes, to have it match to the temperature of the working area.
- Printing before the media could accommodate to the printing environment may cause media jams due to slippage or creases. This also adversely affects the quality of printing.
- Media has a printable side and a non-printable side. If you print on a not printable side, blurring or slight touching may occur.
- Do not touch the printable side of media. Moisture or oil from hands affects the printing quality.
- Do not leave the printer for a long time with media loaded. The media may curl resulting in misalignment, media jams, or decreased printing quality. In particular, avoid this in winter, dry seasons, or during final printing.
- Do not lose the box or wrapping bag for storing media.

4.3.3 Precaution on storing media

When storing media, pay attention to the following.

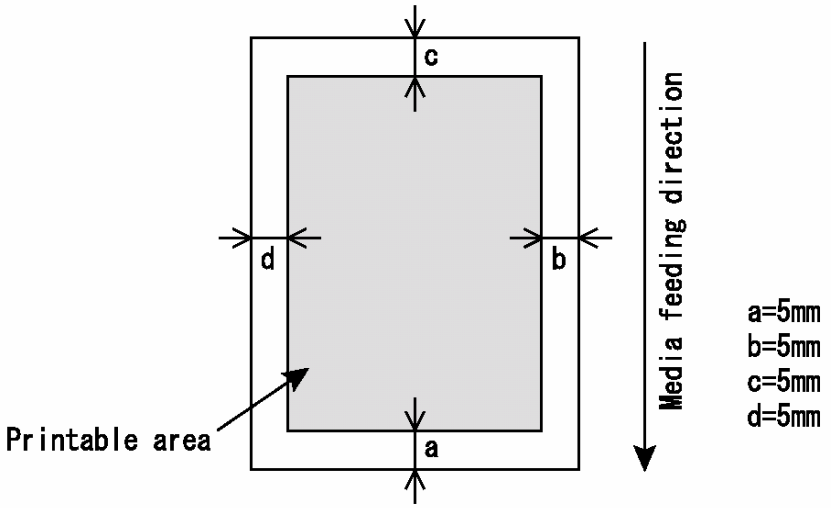
⚠ Notes ⚠

- Do not store media in high temperature, high humidity, or direct sunlight.
- Store sheet media in the original bag after unpacking.
- Unused roll media must be removed from the scroller, rewound tightly, and stored in the original wrapping bag and the box.
- Do not wet media.

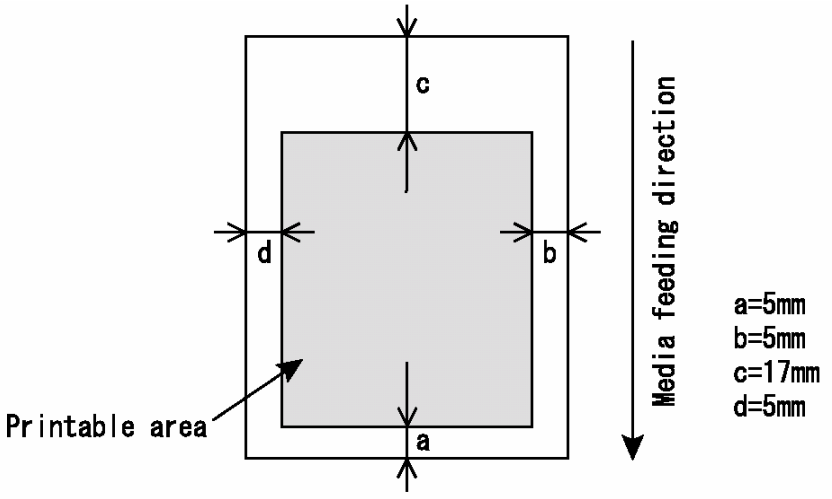
4.3.4 The printing area

The printing area is shown below.

4.3.4.1 (1) Roll media



4.3.4.2 (2) Sheet media



4.4 HANDLING AND INSTALLING MEDIA

⚠ Notes ⚠

- Refer to **"General info on usable media"** for details on media handling.
- It is recommended to use tested and compatible media for this printer.
  Refer to the following topics for types and details of media:
  - **General info on usable media**

4.4.1 *Installing roll media*

⚠ Notes ⚠

- Only use the scroller supplied with this printer.
- For media with a three inch core, three-inch core adapters have to be used.

⚠ Notes ⚠

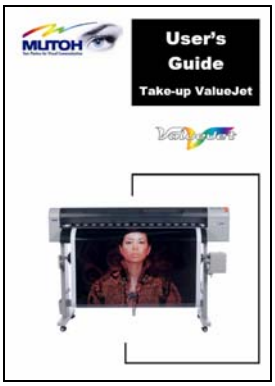
- It is possible to load the following roll media on the printer's scroller :
  - two inches diameter media core (outer diameter less than 150 mm, weight 19kg or less)
  - three inches diameter media core (outer diameter less than 150 mm, weight 19kg or less)
- For details, refer to the following topic: "**Product specifications "**

⚠ Notes ⚠

- Set the roll media on a flat and levelled surface.
- If the roll media and scroller are placed in a vertical position, the scroller might get damaged.

⚠ Notes ⚠

- If you use an optional Take-Up system, please refer to the user guide of the ValueJet 1204 Take-Up system.

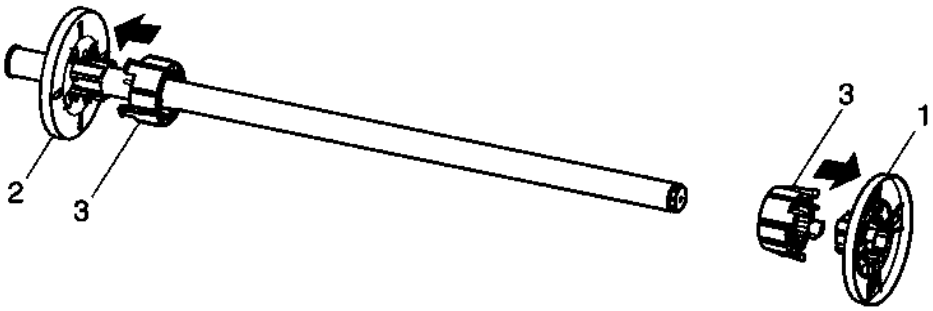


To install the roll media, follow the steps below.

Step 1 : Remove the movable flange from the scroller.

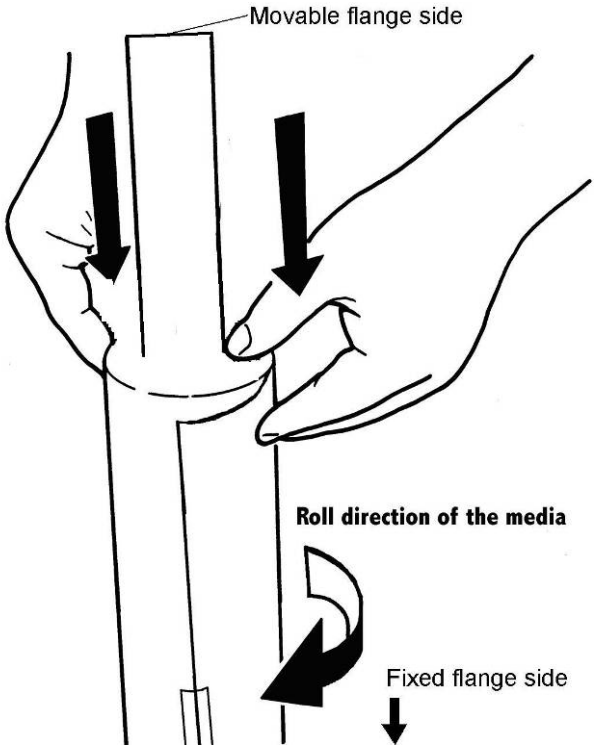
Step 2 : Install the optional three-inch core adapters :

- If using media on a 2 inch core: Don't use the three-inch core adapters, go to step 3.
- If using media on a 3 inch core : Click a three-inch core adapter (3) on the fixed flange (2) and the movable flange (1) as shown on the image below.



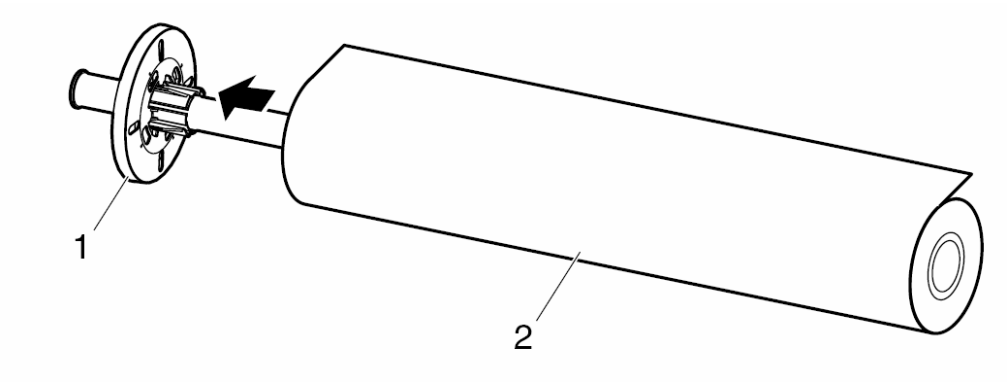
No.	Name
1	Movable flange
2	Fixed flange
3	Three-inch core adapter

Step 3 : Put the roll media on the scroller. See image below for the correct roll direction.



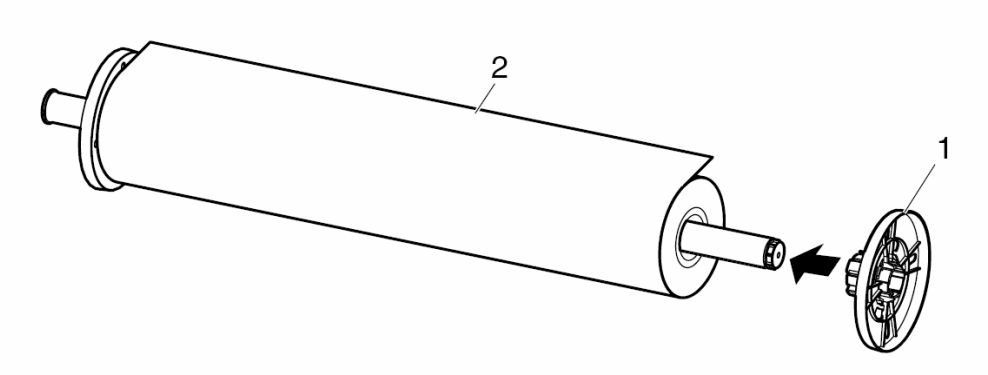
Printable side outside

Step 4 : Push the roll media (2) on the scroller and slide it over the fixed flange (1).



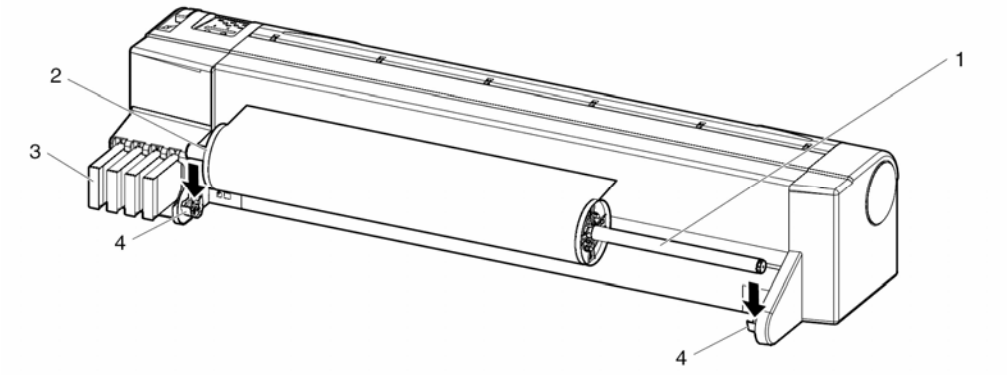
No.	Name
1	Fixed flange
2	Roll media

Step 5 : Move the movable flange (1) over the scroller and firmly press the flange inside the roll media core. See image below.



1	Movable flange
2	Roll media

Step 6 : Put the scroller (1) on the printer's scroller receiver (4) so that the fixed flange (2) is facing the ink cassette slot side. See image below.

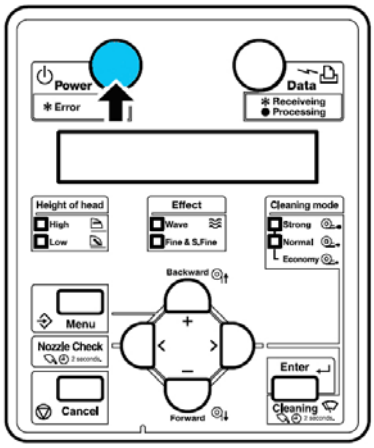


No.	Name
1	Scroller
2	Fixed flange
3	Ink cassette slot
4	Scroller receiver

4.4.2 Loading roll media

To load the roll media, follow the steps below.

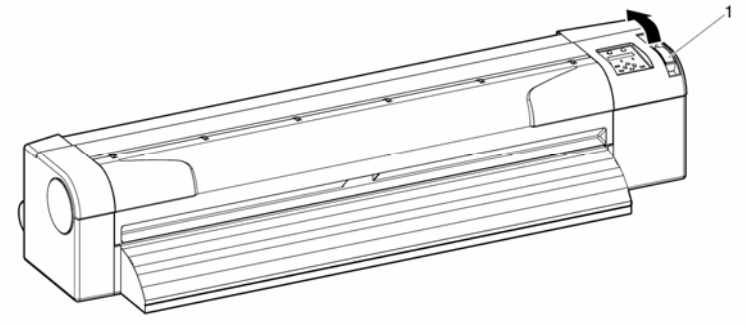
Step 1 : Switch ON the printer.



⚠ Caution ⚠

- **Do not use the media hold lever during printer initialization. If the carriage and the pressure rollers touch each other, the printer may break down.**

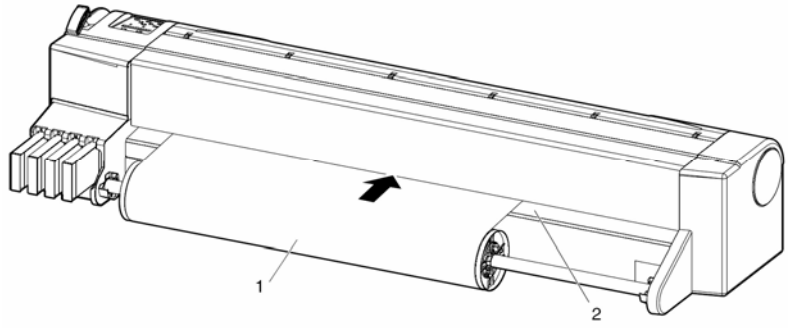
Step 2 : Push the media hold lever (1) backward as indicated on the image below.



No.	Name
1	Media hold lever

Result: The operation panel displays "Lever Up".

Step 3 : Slide the roll media (1) into the media feed slot (2) as shown on the image below.

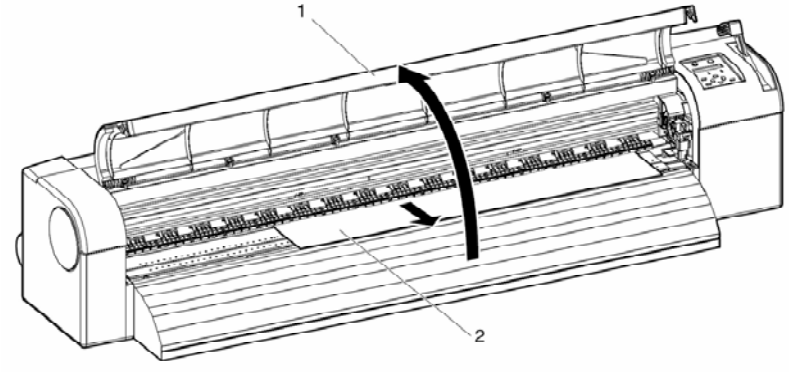


No.	Name
1	Roll media
2	Media feed slot

⚠ Notes ⚠

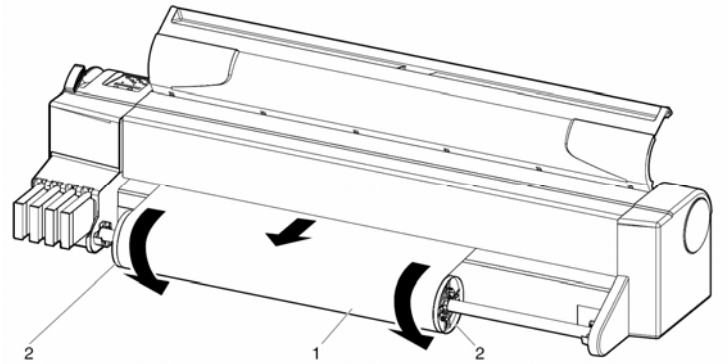
- Make sure the roll media is properly wound up on the media core.
- If the front edge of the roll media is not straight, cut it straight on beforehand.
- If the front edge of the roll media is curled, cut it off on beforehand.
- For the cutting method, refer to topic **"Cutting media"**.

Step 4 : Open the front cover (1), and pull out the roll media (2) about 0,5 m.



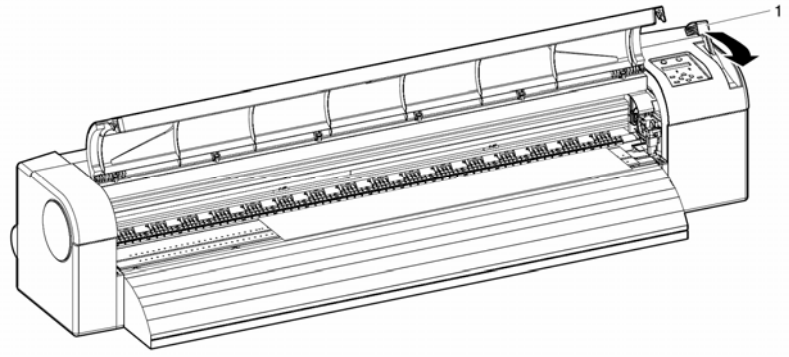
No.	Name
1	Front cover
2	Roll media

Step 5 : Wind back the roll media (1) with the scroller (2) while pressing down the media at the front side of the printer. This will reduce bending and avoid slant of the media. See images below.



No.	Name
1	Roll media
2	Scroller

Step 6 : Pull the media hold lever (1) forward as shown on the image below.

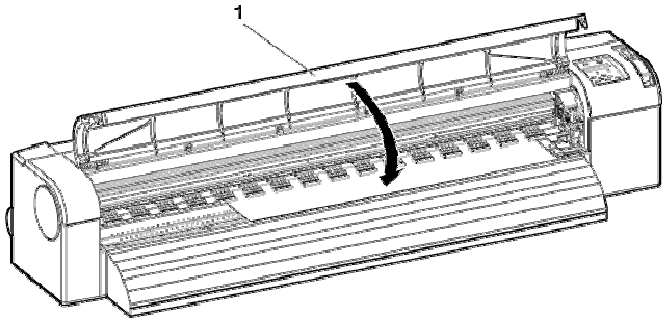


No.	Name
1	Media hold lever

⚠ Notes ⚠

- If the front edge of the roll media is not straight, cut it straight. For the cutting method, See "**Cutting media"**.

Step 7 : Close the front cover (1).



No.	Name
1	Front cover

Result: The operation panel displays the Media setup menu.

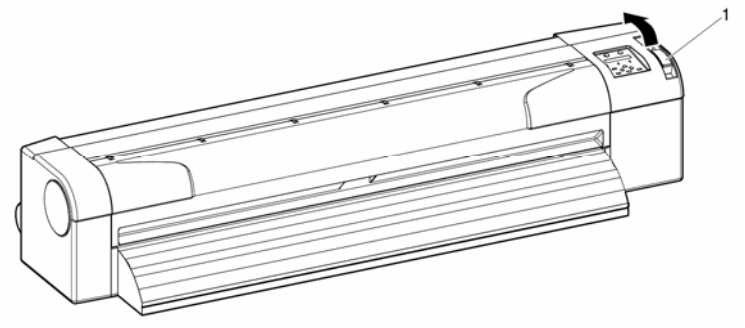
⚠ Notes ⚠

- For changing the media type, set the media type as shown in **"Setting media type"**

4.4.3 Setting media type

Introduction:

When you have loaded the media in the ValueJet, you'll have to set the media type. The Media setup menu is displayed after the media hold lever is pushed from the backward position to the forward position. (= lever down)



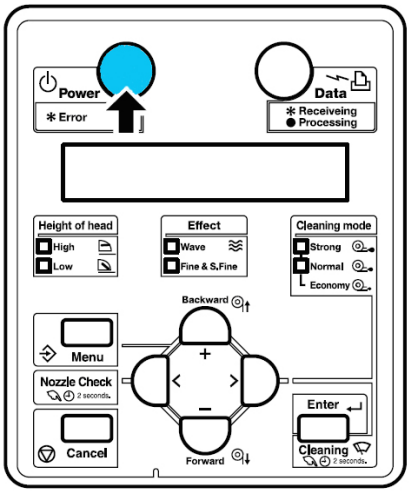
No.	Name
1	Media hold lever

⚠ Notes ⚠

- The printer starts the media initialization without setting the media type when
  - The [Cancel] key of the operation panel is pressed.
  - No key operations are performed on the operation panel for 10 seconds.

Procedure:

Step 1 : Verify that the printer has been switched ON, and the media has been loaded.

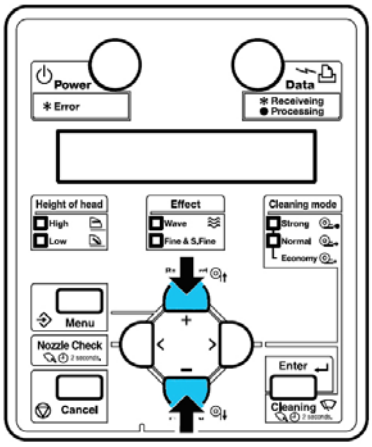


Result: After the media is loaded, the display shifts to the Media setup menu.

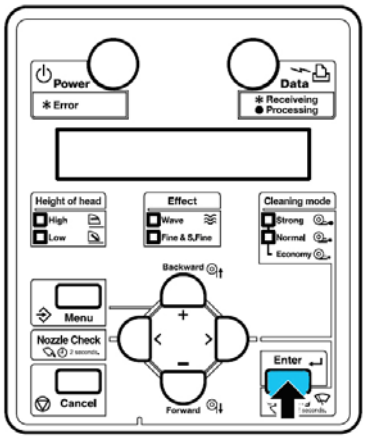
⚠ Notes ⚠

- Refer to the following topics for media loading:
  - **Installing roll media**
  - **Loading roll media**

Step 2 : Press the [Setting value +] key or [Setting value-] key on the operation panel to select the correct media type.



Step 3 : Press the [Enter] key on the operation panel to confirm your choice.

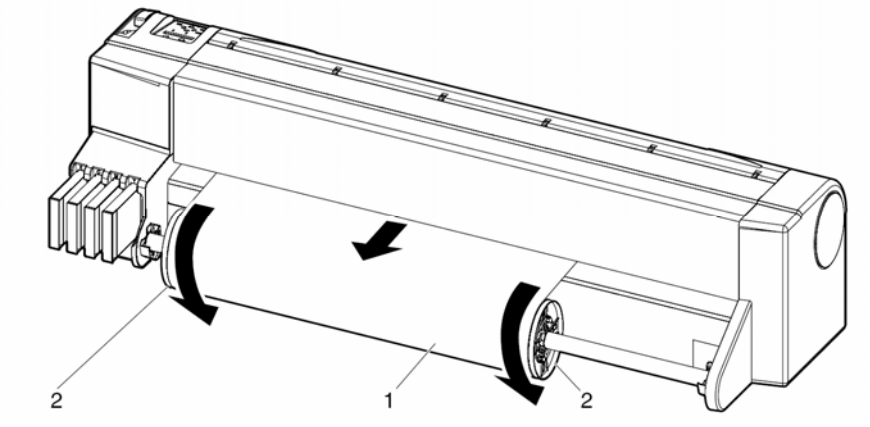


Result:

- The media type is determined
- The operation panel displays "Paper Initial", and media initialisation starts.

Step 4 : After media initialization, the operation panel displays "Ready to Print".

Step 5 : When using the roll media, wind back the roll media to avoid slackness at the back.



No.	Name
1	Roll media
2	Scroller

4.4.4 Head height adjustment

When used?

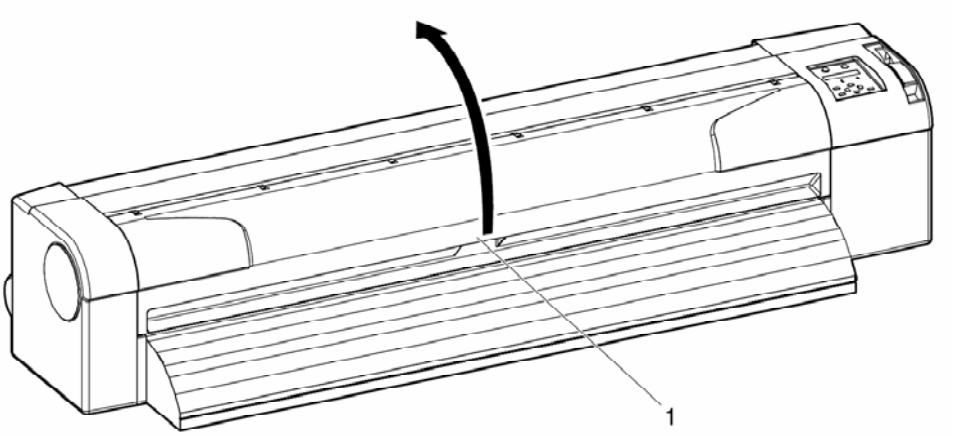
Use the head height adjustment feature to prevent the print head from touching the media, when printing at high speeds or when using strongly curved media.

⚠ Notes ⚠

- If the head height adjustment lever is raised, high print quality will not be guaranteed.
- Do not open the front cover nor change the head height during printing. If the head height is changed, the head alignment will be changed and high print quality will not be guaranteed.
- To perform a head alignment, refer to **"Head height alignment"**

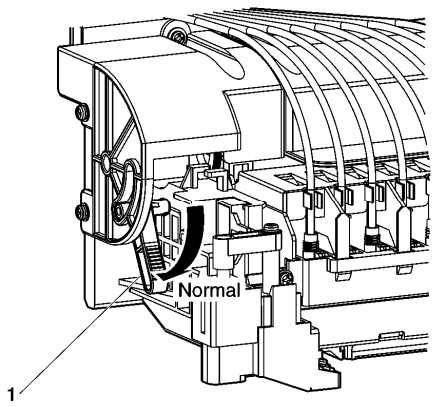
Procedure:

Step 1 : Open the front cover (1). See image below.

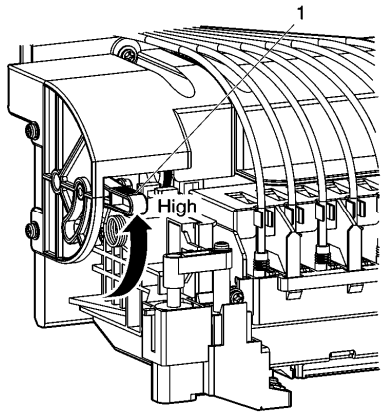


No.	Name
1	Front cover

Step 2 : Change the head height by moving the head height adjustment lever (1). See images below.



Head height: Normal

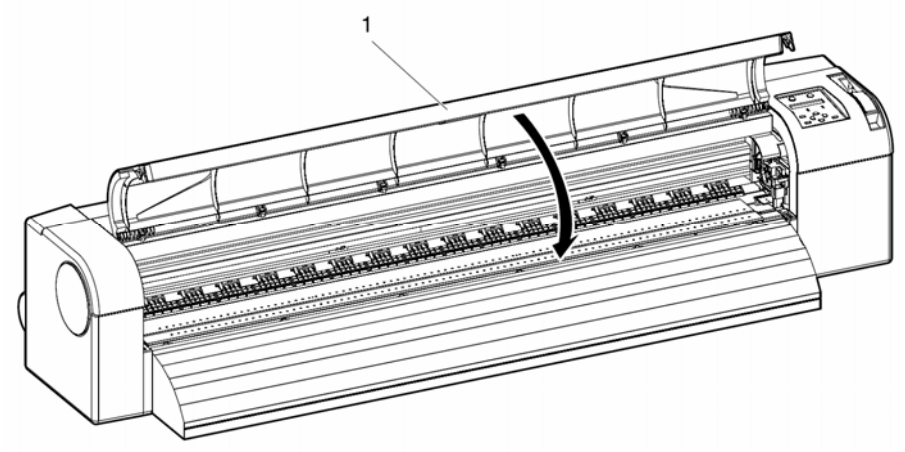


Head height: High

No.	Name
1	Head height adjustment lever

Result: · The High indication light on the operation panel lights up in green

Step 3 : Close the front cover (1). See image below.



No.	Name
1	Front cover

4.4.5 Media feed compensation

After every printed swat, the media is fed a certain distance. Depending on the kind of media (weight, backing) another media feed compensation has to be set. This to avoid the following phenomenon:

- Printed swats overlap.
- White lines between every swat.

In such cases, follow the procedure below and adjust the media feed compensation value.

Step 1 : Display the Media feed compensation menu on the operation panel.

- Press the [Menu] key on the operation panel.
  - Shift to the Setup menu display.
  - The operation panel displays "Menu 1: Setup>".
- Press the [>] key on the operation panel.
  - The operation panel displays "Set1: MediaType".
- Press the [Enter] key on the operation panel.
  - The operation panel displays "Media: Type 1".
- Press the [+] key or [–] key to select the media type you wish to use.
- Press the [Enter] key on the operation panel.
  - The operation panel displays "**>1: Print Mode".

⚠ Notes ⚠

- The selected media (Type 1-30) is displayed in "**". Please refer to "**Media Type menu"**

- Press the [+] key or [–] key to select "**>2: PF Adjust>".
- Press the [>] key on the operation panel.
  - The operation panel displays "PF1: Init.Adj.Print".

Step 2 : Perform the initial adjust print.

- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Feed Length: 250 mm".

⚠ Notes ⚠

- The length that media is fed (feeding length) for initial adjustment printing is normally set at 250 mm.
- If you make the feeding length longer, the accuracy of the Media feed compensation improves. If you want to change the feeding length, press the [+] key or [–] key and change the set value.

- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Printing".
  - o Start Initial adjustment printing.



No.	Name
1	Feed length
2	Media feeding direction

  - o When the initial adjustment printing is complete, the printer enters the normal status

- After the initial adjustment printing, cut the media. See **"Cutting media"**

Step 3 : Measure the distance between two pluses in the initial adjustment print using a measurement tool, such as a ruler.

Step 4 : Set up Initial Adjust Change.

- Press the [+] key or [–] key to select "PF2: Init.Adj.Change".
- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Init: 250.0/250mm".
- Press the [+] key or [–] key and enter the measured value in step 3.
- Press the [Enter] key on the operation panel
  - o The initial adjustment value is saved.
  - o The operation panel displays "PF2: Init.Adj.Change".

Step 5 : Perform the Confirm Print.

- Press the [+] key or [–] key to select "PF3: Confirm Print".
- Press the [Enter] key on the operation panel.
  The operation panel displays "Feed Length: 250 mm".

⚠ Notes ⚠

- The length that media is fed (feeding length) for confirmation adjustment printing is normally set at 250 mm.
- If you make the feeding length longer, the accuracy of the Media feed compensation improves. If you want to change the feeding length, press the [+] key or [–] key and change the set value.

- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Printing".
  - o Start Confirmation adjustment printing.



No.	Name
1	Feed length
2	Media feeding direction

- After the confirmation adjustment printing, cut the media. See **" Cutting media"**

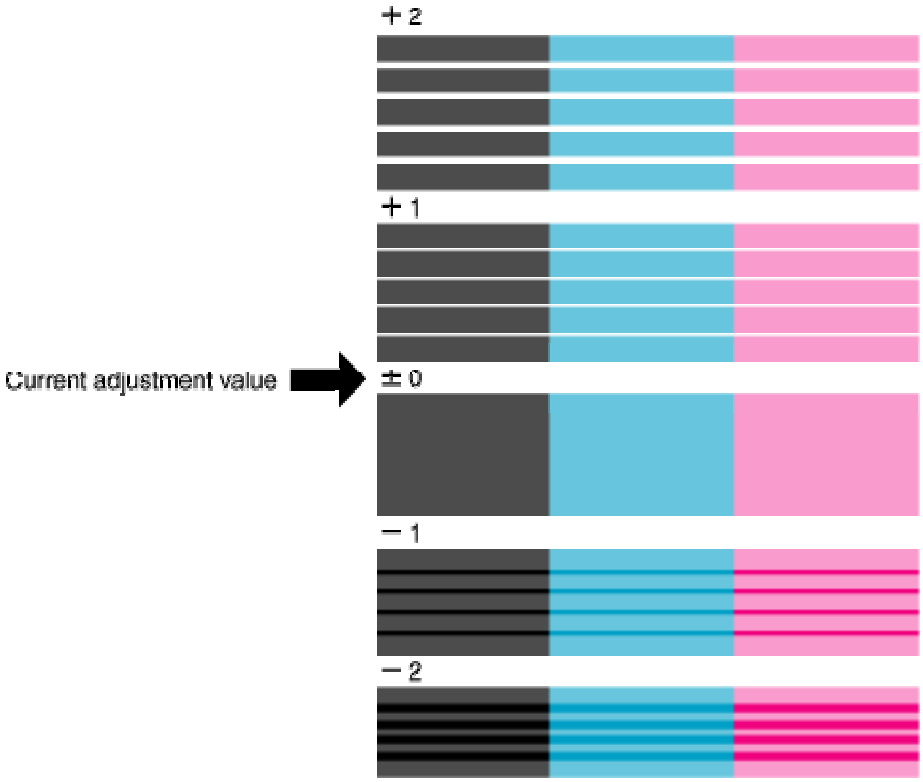
Step 6 : Measure the distance between two pluses in the confirmation adjustment print using a measurement tool, such as a ruler. Then, confirm that the distance matches the feeding length when printing.

- If the distance does not match the feeding length, follow the procedure from 1 to 5 and readjust.

- If the distance matches the feeding length, proceed to step 7.

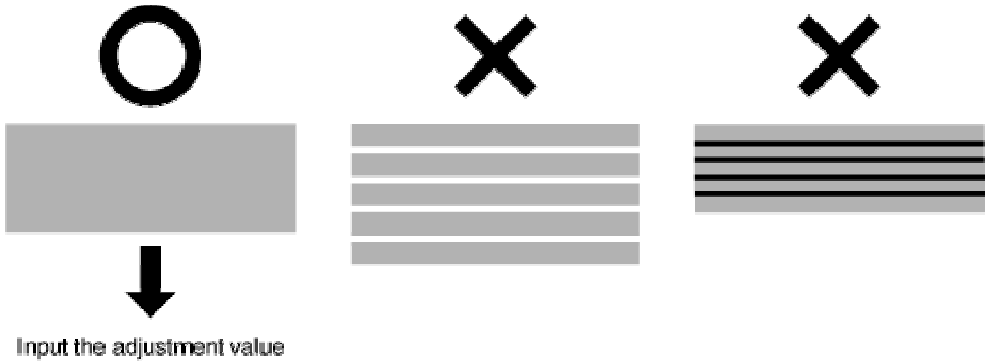
Step 7 : Perform Micro adjustment printing.

- Display the Media feed compensation menu on the operation panel as in step 1.
- Press the [+] key or [–] key to select "PF4: Micro Adj. Print".
- Press the [Enter] key on the operation panel.
  - o The operation panel displays "Printing".
  - o Start Micro adjustment printing.



- After the micro adjustment printing is completed, the operation panel displays "PF4: Micro Adj. Print".

Step 8 : Refer to the illustrations below and check the printing result.



Step 9 : Set up the Micro Adjustment Change.

- Press the [+] key or [–] key to select "PF5: Micro Adj.Change".
- Press the [Enter] key on the operation panel.
  - The operation panel displays "Micro: 0pulse".
- Press the [+] key or [–] key and enter the micro adjustment value according to the printing result in step 7.
- Press the [Enter] key on the operation panel.
  - The micro adjustment value is saved.
  - The operation panel displays "PF5: Micro Adj.Change".
  - The Media feed compensation is complete.

4.4.6 Replacing roll media

Describes the replacement time and replacement method for roll media.

(1) Replacement time

Replace roll media if**...**
…the roll media runs out.
- The operation panel displays "End of Roll".
- If the media runs out during printing, the plotter stops printing.

…you want to change the media type.

(2) Replacement steps

To replace roll media, follow the procedure below. Note that the procedure consists of **2** parts.

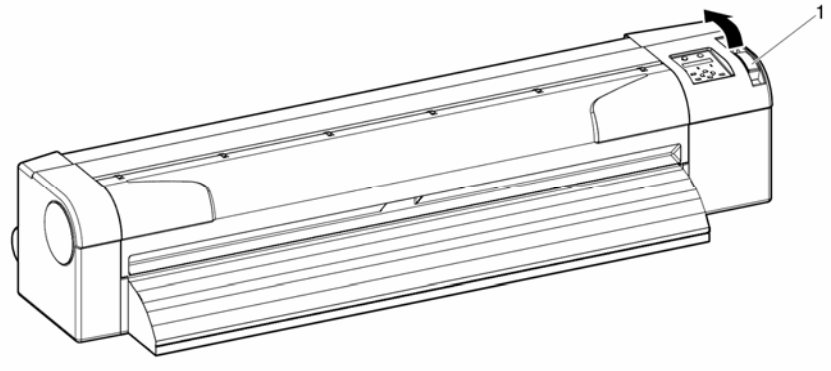
⚠ Caution ⚠

- **Be careful that your fingers are not caught between the front cover and the plotter if you open or close the front cover.**

1. Remove the installed roll media.

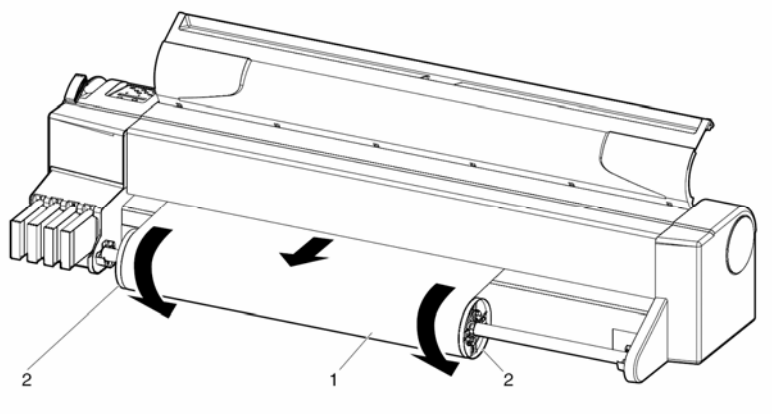
Step 1 : Verify that
- the printer has been switched ON,
- the printer is in Normal mode, and
- the printer does NOT print

Step 2 : Push the media hold lever (1) backward (lever up). See image below.



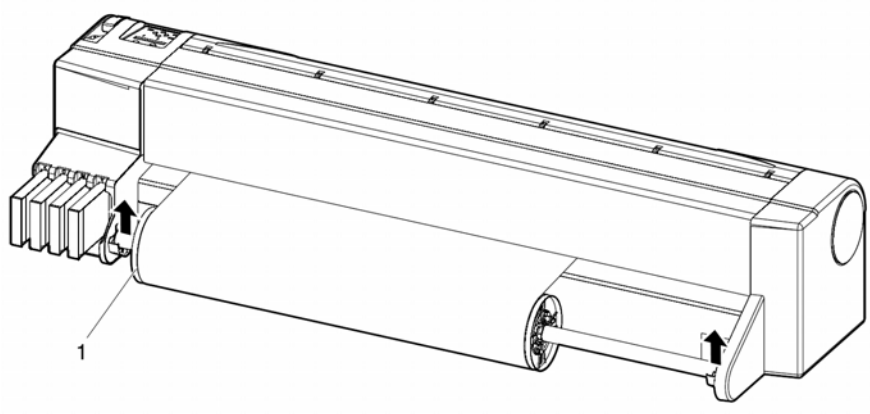
Nr.	Name
1	Media loading lever

Step 3 : Lift both ends of the scroller (2) and gently rewind the roll media (1). See image below.



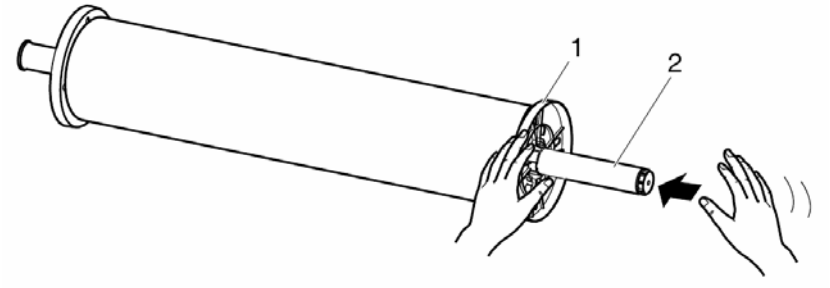
Nr.	Name
1	Roll media
2	Scroller

Step 4 : Remove the scroller (1) from the scroller receiver as illustrated below, and place it on a horizontal surface.



Nr.	name
1	Scroller

Step 5 : Hold the movable flange, and tap the scroller as illustrated below to remove the movable flange.

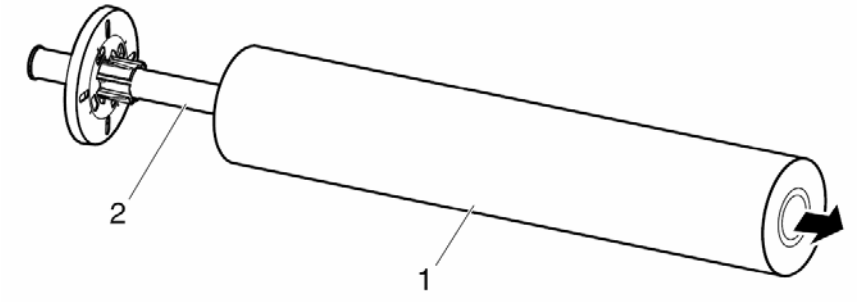


Nr.	name
1	Movable flange
2	Scroller

⚠ Notes ⚠

- When removing roll media, do not drop it. Doing so may damage the scroller.

Step 6 : Remove the roll media (1) from the scroller (2). See image below.



Nr.	Name
1	Roll media
2	Scroller

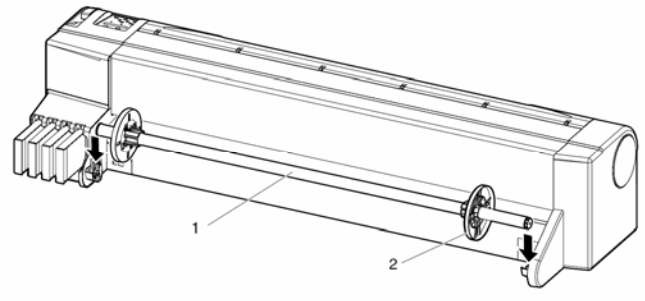
2. Install the new roll media

⚠ Notes ⚠

- For loading the roll media, refer to **Handling and installing media**
- For roll media you do not use, store it according to **Notes on storing media**

⚠ Notes ⚠

- When you do not set roll media, attach the movable flange to the scroller to set the scroller to the printer.



Nr.	name
1	Movable flange
2	Scroller

4.5 TEST PRINT

4.5.1 Overview and functions of the test prints

Testplot	Function	Action to be performed when needed
Nozzle Check	To check the head nozzles.	Perform a head cleaning.
Mode print	To check the print conditions.	Change print conditions.
Setup print	To check the current setup of the printer.	Change setup.
Palette Print	To compare output colours with printing colours.	Check colour mode

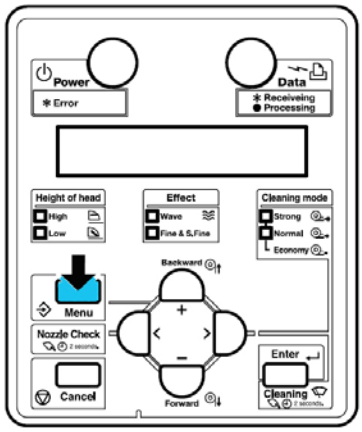
4.5.2 Performing a test print

To print a test print, follow the steps below.

Verify that the printer has been switched ON and that media more than A3 size has been loaded.
For more information, please refer to: **"Installing roll media"** and **"Loading roll media"**

Step 1 : Verify that the printer is in Normal mode.

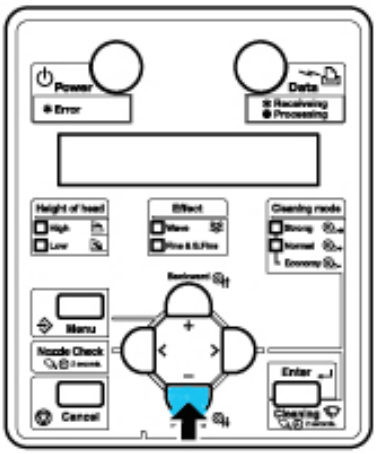
Step 2 : Press the [Menu] key on the operation panel.



Result:

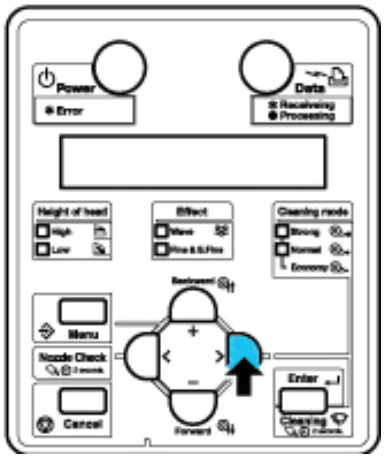
- The first submenu of the Setup menu is displayed.
- The operation panel displays "Menu 1: Setup>".
- The printer is in Menu mode.

Step 3 : Press the [-] key on the operation panel.



Result: The operation panel displays " Menu 2: Test Print>"

Step 4 : Press the [>] key on the operation panel

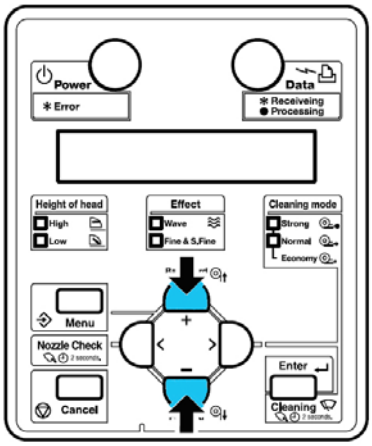


Result:

- The operation panel displays "Test1: Nozzle Check".
- The display enters the Test Print menu

Step 5 : Press the [+] key or [-] key on the operation panel to select the item you want to print and press the [Enter] key.

Submenus: · Nozzle Check · Mode print · Setup print · All Set List · Palette print



Result: Printing starts for the selected submenu.

⚠ Notes ⚠

- Please refer to the following topics for details on each item of the test print list:
  Nozzle Check to **Palette print**
- When "Banner 1" or "Banner 2" is set in the Print Mode menu, "PalettePrint" is not displayed on the Test Print menu.

4.5.3 Nozzle check

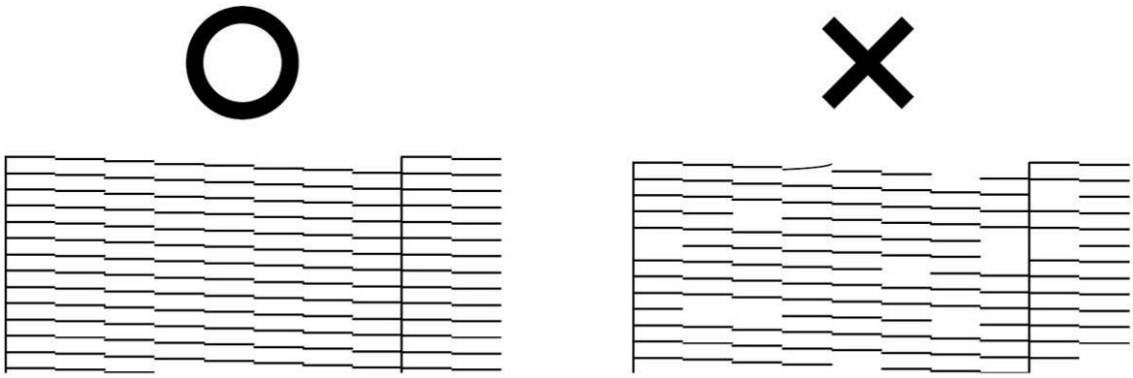
Used to check whether there are any head clogging, missing nozzles or misfiring nozzles.

⚠ Notes ⚠

- If the nozzle check result indicates that the checked points are blurred or missing, clean the head.
  See **Head cleaning.**
  Perform the nozzle check once again after the head has been cleaned.

⚠ Notes ⚠

- For the printing procedure, refer to **"Performing a test print"**.



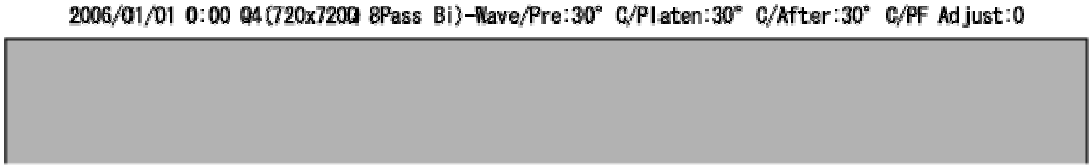
4.5.4 Mode Print

Used to confirm the following printing conditions:

- Print mode
- Pre heater set temperature
- Fixer (Platen) heater set temperature
- Drier heater set temperature
- Adjustment value

⚠ Notes ⚠

- For the printing procedure, refer to "**Performing a test print"**.



4.5.5 Setup print

Checks the current settings of the printer.

⚠ Notes ⚠

- Paste the setup print on this page.
- User media and print mode lists are printed only when "ALL Set List" is selected.
- For the printing procedure, refer to **"Performing a test print"**.

Setup List

<Information> 2006/10/03 09:44

SerialNo. = EY4E000002
Model = VJ-1204 PROM = V 1.07
Memory Size = 128MB NVRAM = V 1.00

!Error!
0:None[ ] 2:None[ ] 4:None[ ]
1:None[ ] 3:None[ ] 5:None[ ]

<Menu Setup> Height of head: Low Cleaning mode: Normal

```
[Number][Select]Menu  = Setup
[ 1][*]MediaType      = Type 1
       [1]Print Mode   = Banner 4
       [2]PF Length
              [1]Initial Adj. Print
              [2]Initial Adjust = 250.0/250mm
              [3]Confirm Adj. Print
              [4]Micro Adj. Print
              [5]Micro Adjust   =  20pulse
       [3]PreHeater    = Off
       [4]PlatenHeater = Off
       [5]AfterHeater  = Off
       [6]Standby Heat = Off
       [7]Vacuum Fan   = On
[ 2][*]Effect         = Wave1
[ 3][*]Flushing       = Origin
[ 4][*]SideMargin     = 3mm
[ 5][*]Media Initial  = Width
[ 6][*]MediaWidth     = 1212mm
[ 7][ ]Take-up
[ 8][ ]Feed
[ 9][*]Origin
[10][*]Prevent Stick  = On
[11][ ]Head Fan
[12][*]CR Movement    = Data
[13][*]Overwrite Cnt  = 1cnt
[14][*]Overwrite Wait = 0.0sec
[15][*]Media Slant    = On
```

```
[Number][Select]Menu  = Setup
[16][*]Auto Cleaning  =  4h
[17][*]Ink Status          K: 54%   C: 57%
                           M: 33%   Y: 39%
[18][*]RollKind       = Roll1(Length = 41m)
[19][*]Head Wash
[20][*]CR Maintenance
[21][*]Initialization
[22][*]Life Times          Head     : E******F
                           Pump     : E******F
                           CR Motor : E******F
                           PF Motor : E******F
[23][*]IP Address     = 172.016.233.149
[24][*]Subnet Mask    = 255.255.000.000
[25][*]Gateway        = 192.168.001.254
```

<Media Type List>

Media Type	Type 1	Type 2	Type 3	Type 4	Type 5	Type 6	Type 7	Type 8	Type 9	Type10
Print Mode	Banner 4	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2
PF>Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
PF>Micro(4pass)	20pulse	-10pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(6pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(8pass)	- 6pulse	- 6pulse	- 6pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(16pass)	- 3pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PreHeater	Off	45°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
PlatenHeater	Off	45°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
AfterHeater	Off	45°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
Standby Heat	Off	Off	Off	On	On	On	On	On	On	On
Vacuum Fan	On	On	On	On	On	On	On	On	On	On

Media Type	Type11	Type12	Type13	Type14	Type15	Type16	Type17	Type18	Type19	Type20
Print Mode	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2
PF>Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
PF>Micro(4pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(6pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(8pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(16pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PreHeater	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
PlatenHeater	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
AfterHeater	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
Standby Heat	On	On	On	On	On	On	On	On	On	On
Vacuum Fan	On	On	On	On	On	On	On	On	On	On

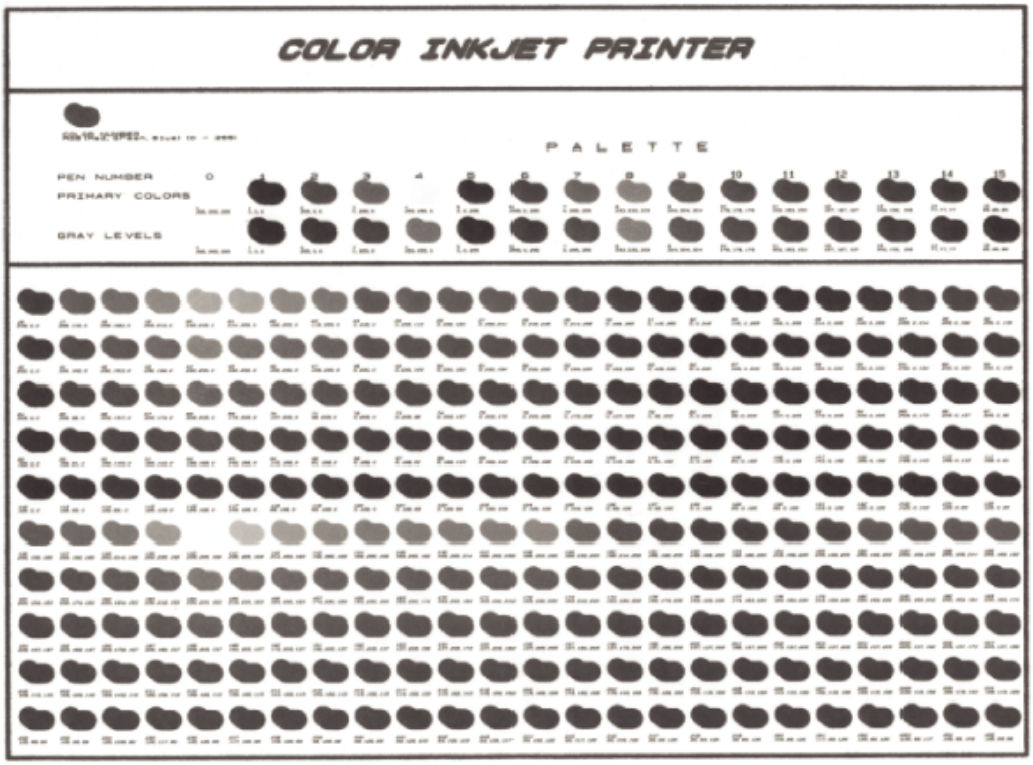
Media Type	Type21	Type22	Type23	Type24	Type25	Type26	Type27	Type28	Type29	Type30
Print Mode	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2	Graphics 2
PF>Initial Adjust	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm	250.0/250mm
PF>Micro(4pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(6pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(8pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PF>Micro(16pass)	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse	0pulse
PreHeater	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
PlatenHeater	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
AfterHeater	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C	30°C
Standby Heat	On	On	On	On	On	On	On	On	On	On
Vacuum Fan	On	On	On	On	On	On	On	On	On	On

4.5.6 Palette print

Used to compare pen colours used on the computer to the printing colours.

⚠ Notes ⚠

- When "Banner 1" or "Banner 2" is set in the Print Mode menu, "PalettePrint" is not displayed on the Test Print menu.
- For the printing procedure, refer to **"Performing a test print"**.



4.6 ADJUST PRINT

Used to align the print head.

⚠ Notes ⚠

- This printer has been adjusted for optimum print quality before shipment at the Mutoh factory.
- Align the print head when the print quality decreases after the installation environment or the media has been changed.

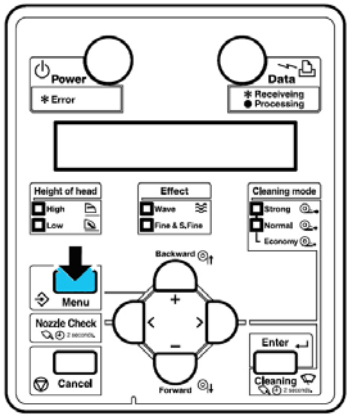
Align the print head as described in the following procedure:

Step 1 : Switch on the printer.

Step 2 : Load more than A3 size print media.

Step 3 : Confirm that the printer functions normally.

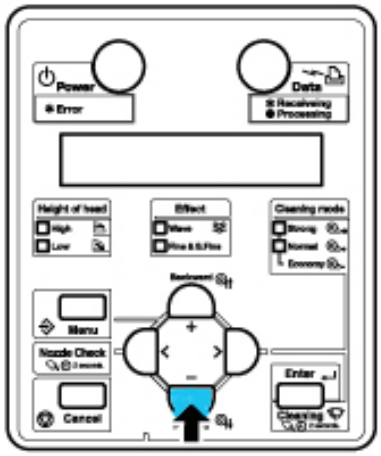
Step 4 : Press the [Menu] key on the operation panel.



Result:

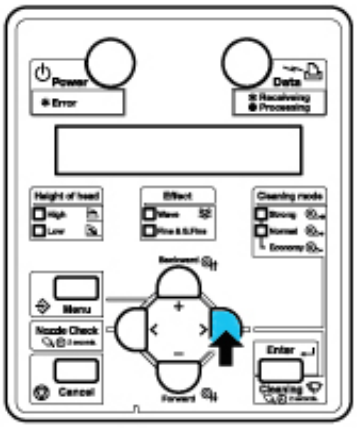
- The operation panel displays "Menu 1: Setup>".
- Shift to the Setup menu display.

Step 5 : Press the [–] key on the operation panel twice.



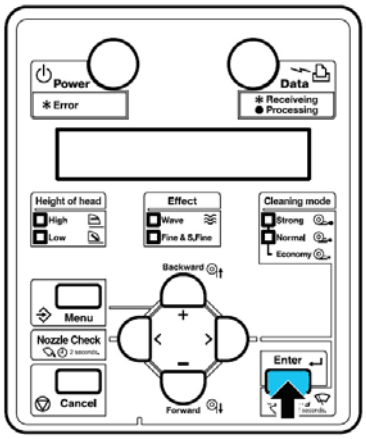
The operation panel displays "Menu 3: Adjust. Print>".

Step 6 : Press the [>] key on the operation panel.

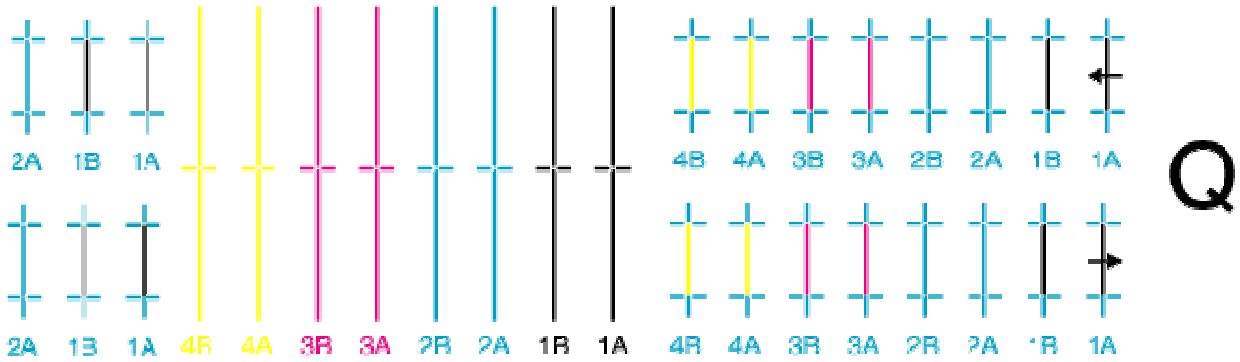


The operation panel displays "Adj.1: Confirm".
The display enters the Adjust Print menu.

Step 7 : Press the [Enter] key on the operation panel.

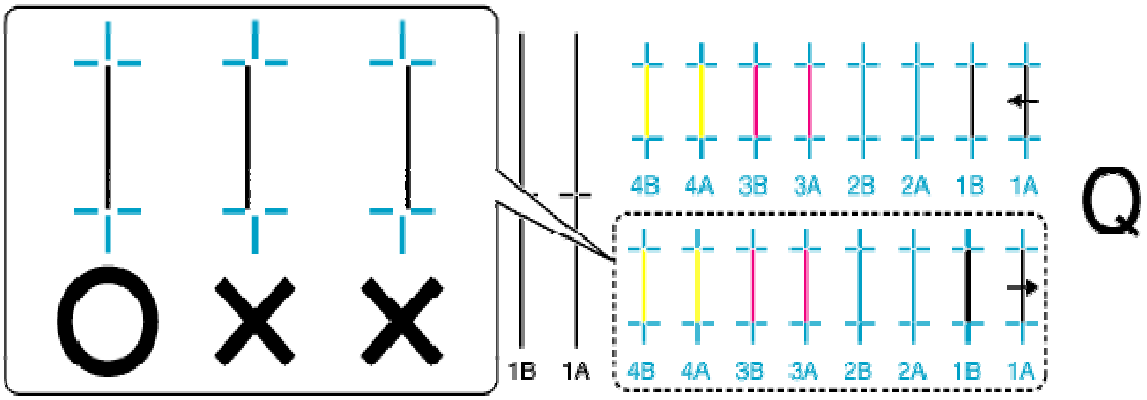


A confirmation pattern for quality adjustment is printed.



After the confirmation pattern is printed, the operation panel displays "Adj.1: Confirm".

Check that the confirmation pattern printing result is as follows.

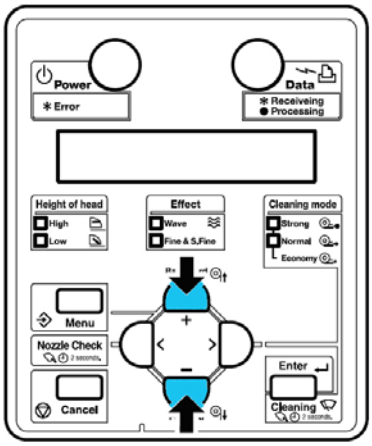


- When the printing result is O:
  You do not to need perform Alignment.

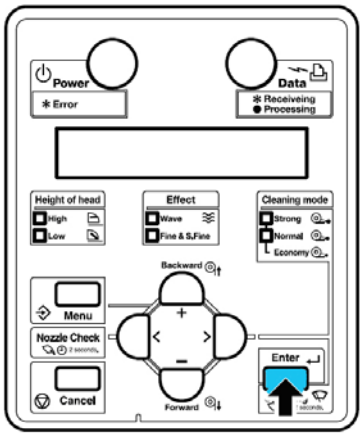
- When the printing result is ×:
  You need to perform Alignment. Proceed to step 9.

Register a set value for Bi-D Quality (two-way printing/quality priority mode).

Step 8 : Press the [+] or [–] key on the operation panel to select "Adj.4: Bi-D Quality".

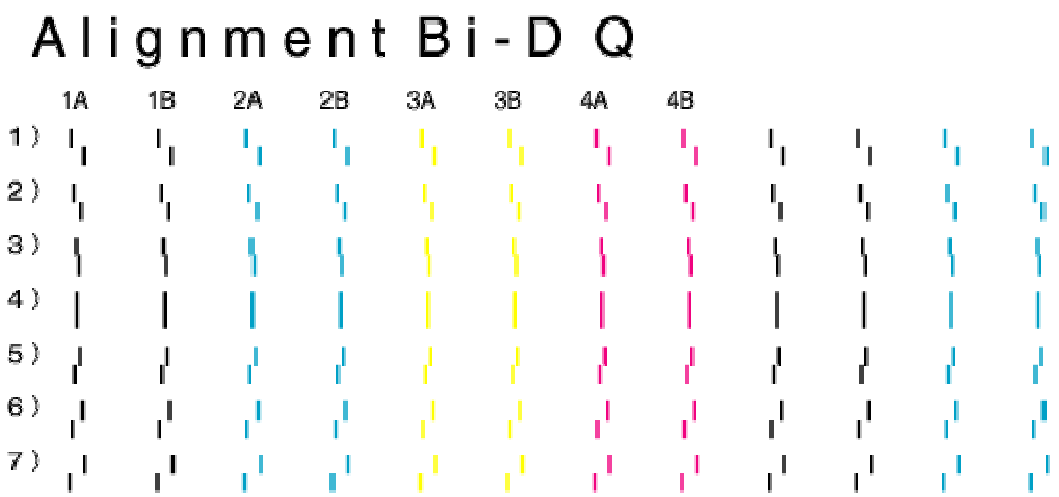


Step 9 : Press the [Enter] key on the operation panel.



Step 10 : Start "Bi-D Quality" pattern printing.

Step 11 : Check the "Bi-D Quality" pattern printing and select the number corresponding to the lines that are most closely aligned. "4" is selected in the following printing sample.



Step 12 : Press the [+] key or [–] key to enter the number that you selected.

Step 13 : Press the [Enter] key on the operation panel.
Step 14 : The set value for "Bi-D Quality" is registered.

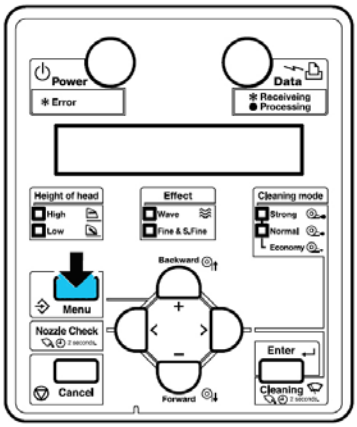
Register a set value for Bi-D Normal (two-way printing/normal mode) as in step 8.
Alignment ends.

4.7 MENU SETUP ON THE OPERATION PANEL

4.7.1 Menu setup procedure

To configure various setup menus, follow the 6 steps below.

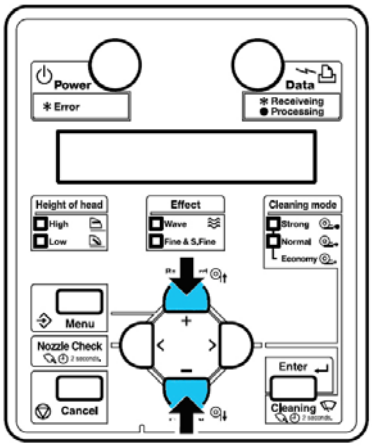
Step 1 : Verify that the printer is in Normal mode.



Step 2 : Press the [Menu] key on the operation panel.

Result: o The printer is in Menu mode.
o The following message is shown: "Menu 1: Setup>".

Step 3 : Press the [+] key or [-] key on the operation panel to select a setup item and press the [Enter] key to confirm your choice.

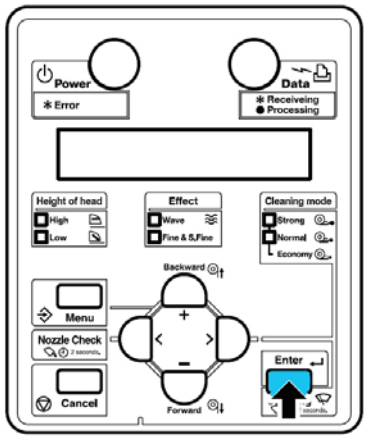


Result: o The settings will be confirmed, OR,
o when a setup item has a submenu, the submenu will be displayed.

⚠ Notes ⚠

- When a setup item has a submenu, [>] is displayed at the right end of the LCD monitor of the operation panel.
- For details of each setup item, refer to **Setup menu**
- Settings on the LCD monitor that are blinking can be changed by pressing the [+] key or [-] key.

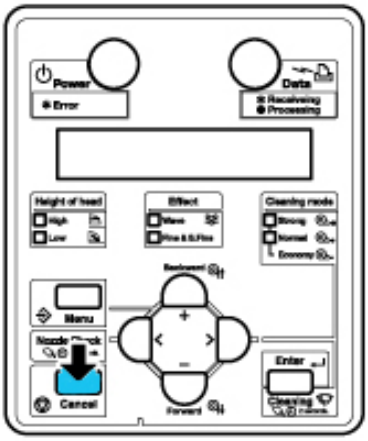
Step 4 : To save the changed setting, press the [Enter] key on the operation panel.
Result: The setting will be saved and the next setup item will be displayed.



⚠ Notes ⚠

- After having changed the setting, press the [Cancel] key, the [+] key or [-] key without pressing the [Enter] key, when the settings do NOT have to be saved.

Step 5 : Press the [Menu] key or [Cancel] key on the operation panel to exit the setup menu.



Result:

- The previous hierarchical setup menu will be displayed.
- When the main menu is displayed, the screen returns to Normal mode.

4.7.2 Panel setup menu overview

This sub-section explains the Panel setup menu of the printer.
There are following items in the Panel setup menu.

Setup item	Description
Setup menu	Performs various setup item of the printer
Test Print menu	Perform the nozzle check of the print head and setup list
Adjust Print menu	Print and adjust test patterns for alignment
Cleaning menu	Perform head cleaning
Selection menu	Set up the contents of the Setup menu

⚠ Notes ⚠

- For details of each setup item, refer to **"Setup menu".**
- < > parts in each list are factory default settings (initial values).

4.8 SETUP MENU

The complete menu structure and its function:

Setup item	Description
MediaType	Set up the media type for printing. [Enter] key: Shift to the next hierarchy.
Effect	Set up the Effect menu. [Enter] key: Shift to the next hierarchy.
Flushing	Set up the Flushing operation while printing. [Enter] key: Shift to the next hierarchy.
Side Margin	Set up the right and left margin when printing. [Enter] key: Shift to the next hierarchy.
Media Initial	Set up whether the media width and edge are detected when initializing the media. [Enter] key: Shift to the next hierarchy.
Media Width/MediaWidth	Set up the media width from the loading mark to the left end if media detection is not performed when initializing the media. Display the detected media width if media detection is performed when initializing the media. [Enter] key: Shift to the next hierarchy.
Origin	Set the beginning of printing (origin) of the printing data. [Enter] key: Shift to the next hierarchy.
Prev. Stick	Set up to prevent media from sticking when printing. [Enter] key: Shift to the next hierarchy.
CR Movement	Set up the range to move the print head while printing. [Enter] key: Shift to the next hierarchy.
Overwrite Cnt	Set up the Overwrite Cnt per line. [Enter] key: Shift to the next hierarchy.
Overwrite Wait	Set up the waiting time while overwrite printing. [Enter] key: Shift to the next hierarchy.
Slant Check	Set up the slanting detection while loading the media. [Enter] key: Shift to the next hierarchy.
Auto Cleaning	Set up the auto cleaning time while printing. [Enter] key: Shift to the next hierarchy.
Ink Status	Display information (ink status) of ink cassette that was installed into the ink cassette slot. [Enter] key: Shift to the next hierarchy.
Roll Length	Set up the roll media length. [Enter] key: Shift to the next hierarchy.
Head Wash	Perform head cleaning. [Enter] key: Shift to the next hierarchy.
CR Maintenance	Clean the wiper. [Enter] key: Shift to the next hierarchy.
Initialization	The setting value of the printer is returned to default. [Enter] key: Shift to the next hierarchy.
Life Times	Display the operational life time of each part. [Enter] key: Shift to the next hierarchy.
IP Address	Sets the IP address of the printer. [Enter] key: Shift to the next hierarchy.
Subnet Mask	Sets the subnet mask of the printer. [Enter] key: Shift to the next hierarchy.
Gateway	Sets the Gateway. [Enter] key: Shift to the next hierarchy.
Temporary	The settings of "Off" or "ALL Off" in the Selection menu are displayed in the Setup menu temporary. • [Enter] key: Return to the previous hierarchy with display of all setup menu items. • [Cancel] key: Return to the previous status in the Selection menu.
—	[Cancel] key: Shift to the previous hierarchy.

4.8.1 MediaType menu

Set up the media type for printing.

Setup item	Setting Value	Description
Media	Type 1 Type 2 ... Type 29 Type 30	Set up the media type for printing. It is possible to set 30 different user settings as "Type 1-30" for printing. [Enter] key: Shift to the next hierarchy. ► **User media menu**
	—	[Cancel] key: Save the setting value and shift to the previous hierarchy. ► **Setup menu**

4.8.1.1 User media menu

Various settings on the user media can be set.

⚠ Notes ⚠

- If non-compatible media is used, the following problems may occur:
  - o Media detection error
  - o Slant, snag and wrinkle of media
  - o Media jams
  - o Optimum printing quality cannot be obtained due to blots, blurs and dirt of ink.
  - o End detection of roll media cannot be performed, etc.
- The problems caused by the use of non-compatible will not be covered by the warranty and repair expenses will be paid by the customer.
  For details, contact your MUTOH local dealer.

Setup item	Setting Value	Description
Type 1 to 30	Print mode	Set up the print mode according to the used print data or print speed. • [Enter] key: Shift to the next hierarchy. ► **Print mode menu**
	PF Adjust	Various settings on the Media feed compensation can be set. • [>] key: Shift to the next hierarchy. ► **Dist. Adj menu**
	Pre Heater	Set up the Pre Heater temperature. • [Enter] key: Shift to the next hierarchy. ► **Pre heater menu**
	Fixer (platen)	Set up the Platen Heater temperature. • [Enter] key: Shift to the next hierarchy. ► **Platen heater menu**
	Dryer	Set up the After Heater temperature. • [Enter] key: Shift to the next hierarchy. ► **After heater menu**
	StandbyHeating	Set up whether the heater is preheated while in standby mode. • [Enter] key: Shift to the next hierarchy. ► **StandbyHeating menu**
	Vacuum Fan	Set up the vacuum fan operation • [Enter] key: Shift to the next hierarchy. ► **Vacuum fan menu**
	—	• [Cancel] key: Shift to the previous hierarchy. ► **Media type menu**

4.8.1.2 Print Mode menu

Set up the printing quality (print mode) according to the used to print data or print speed.

Setup item	Setting Value	Description
Mode	Quality 1 Quality 2 Quality 3 Quality 4 <Graphics 1> Graphics 2 Banner 1 Banner 2 Banner 3 Banner 4	Set up the print mode. • Quality 1 to 4: Set up to perform high quality printing. • Graphics 1 to 2: Set up to perform standard printing. • Banner 1 to 4: Set up to perform high speed printing. Display the printing mode while pressing [>] key. Details of the print mode **⚠ Notes ⚠** When setting "Banner 1" or "Banner 2" in the Print Mode menu, "PalettePrint" is not displayed in the Test Print menu.
	---	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **" User media menu"**

Details of the print mode

The printing quality mode settings are as follows.

Print mode	Resolution	Print speed	Pass	Direction
Quality 1	1440×1440 dpi	Q (high quality)	16 times	Uni (unilateral)
Quality 2	1440×720 dpi	Q (high quality)	8 times	Uni (unilateral)
Quality 3	720×720 dpi	Q (high quality)	8 times	Uni (unilateral)
Quality 4	720×720 dpi	Q (high quality)	8 times	Bi (bidirectional)
Graphics 1	720×720 dpi	N (normal)	8 times	Uni (unilateral)
Graphics 2	720×720 dpi	N (normal)	8 times	Bi (bidirectional)
Banner 1	540×720 dpi	N (normal)	6 times	Uni (unilateral)
Banner 2	540×720 dpi	N (normal)	6 times	Bi (bidirectional)
Banner 3	720×720 dpi	Q (high quality)	4 times	Uni (unilateral)
Banner 4	720×720 dpi	N (normal)	4 times	Bi (bidirectional)

4.8.1.3 Dist.Adj menu

Various settings on the Media feed compensation can be set.

Setup Item	Setting Value	Description
PF	Init.Adj.Printv	Perform the initial adjust print. • [Enter] key: Shift to the next hierarchy. **(1) Init.Adj.Print menu**
	Init.Adj.Change	Set up Initial Adjust Change. • [Enter] key: Shift to the next hierarchy. **(2) Init.Adj.Change menu**
	Confirm Print	Perform the Confirm Print. • [Enter] key: Shift to the next hierarchy. **(3) Confirm Print menu**
	Micro Adj. Print	Perform the Micro Adjustment Print. • [Enter] key: Shift to the next hierarchy. **(4) Micro Adj. Print menu**
	Micro Adj.Change	Set up the Micro Adjustment Change. • [Enter] key: Shift to the next hierarchy. **(5) Micro Adj.Change menu**
	—	• [Cancel] key: Shift to the previous hierarchy.

4.8.1.4 (1) Init.Adj.Print menu

Perform the initial adjust print.

Setup Item	Setting Value	Description
Feed Length	100 mm to <250 mm> to 500 mm	Change the length (feed length) of the media feed direction for the initial adjust print. • [Enter] key: The setting value is determined. "Printing" is displayed on the operation panel and the initial adjust print is started. After printing, the printer enters in the normal status.
	—	• [Cancel] key: Cancel the setting value and shift to the previous hierarchy. **► Dist.Adj menu**

4.8.1.5 (2) Init.Adj.Change menu

Set up Initial Adjust Change.

Setup Item	Setting Value	Description
Init.	200.0 mm to <250.0 mm> to 300.0 mm	Set up Initial Adjust Change.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Dist.Adj menu**

4.8.1.6 (3) Confirm Print menu

Perform the Confirm Print.

Setup Item	Setting Value	Description
Feed Length	100 mm to <250 mm> to 500 mm	Change the length (feed length) of the media feed direction for the Confirm Print. • [Enter] key: The setting is determined. "Printing" is displayed on the operation panel and initial adjust print is started. After printing, the printer enters the normal status.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Dist.Adj menu**

4.8.1.7 (4) Micro Adj. Print menu

Perform the Micro Adjustment Print.

Setup Item	Setting Value	Description
Micro Adj. Print	Printing	Print the following PF pattern (micro adjustment) with a focus on the micro adjustment value. • Printing interval: ± 1 pulse
	—	• [Cancel] key: Shift to the previous hierarchy. If the printer is terminated during printing it shifts to the previous level. **► Setup menu**

4.8.1.8 (5) Micro Adj.Change menu

Set up the Micro Adjustment Change.

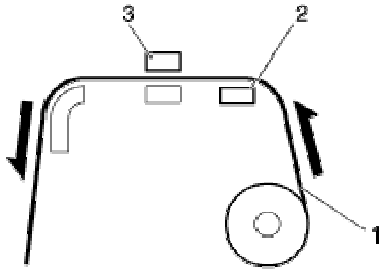
Setup Item	Setting Value	Description
Micro Adj.Change	–20 pulse to <0 pulse > to 20 pulse	Set up the Micro Adjustment Change.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

4.8.1.9 Pre Heater menu

Set up the Pre Heater temperature.
Set up to acclimatize and preheat the media before printing.

⚠ Notes ⚠

- The temperature to be set for the Pre Heater varies depending on the media which is used. For recommended temperature settings of Pre Heater, refer to the "Recommended media list".

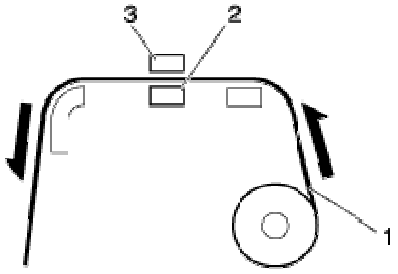
Setup Item	Setting Value	Description
Pre Heater	Off / <30° C> to 50° C	Set up the Pre Heater temperature.  1. Roll media 2. Pre Heater 3. Print head
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► User media menu**

4.8.1.10 Fixer (platen) menu

Set up the Fixer (Platen) Heater temperature.
Set up this menu to warm up the loaded media and improve the printing quality. (Ink fixation)

⚠ Notes ⚠

- Preset temperature to be set for the Fixer (Platen) varies depending on the media which is used. For recommended temperature settings of Fixer (Platen), refer to the "Recommended media list".

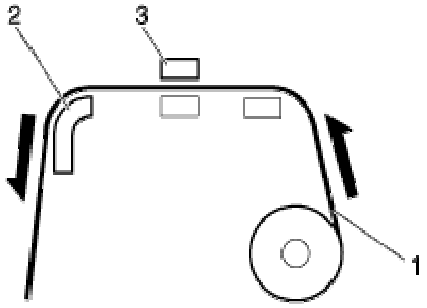
Setup Item	Setting Value	Description
Fixer (platen) Heater	Off / <30° C> to 50° C	Set up the fixer (platen) temperature.  1. Roll media 2. Fixer (Platen) Heater 3. Print head
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► User media menu**

4.8.1.11 Dryer menu

Set up the After Heater temperature.
Set this menu to dry the print.

⚠ Notes ⚠

- Temperature to be set for the after Heater varies depending on the media which is used for recommended temperature settings of the after Heater, refer to the "Recommended media list".

Setup Item	Setting Value	Description
After Heater	Off / <30° C> to 50° C	Set up the after Heater temperature.  1. Roll media 2. Dryer- After heater 3. Print head
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► User media menu**

4.8.1.12 StandbyHeating menu

Set up whether each heater is preheated (idle heat) while in standby mode.

Setup Item	Setting Value	Description
StandbyHeating	Off	Idle heat is not performed.
	<On>	Idle heat is performed.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► User media menu**

4.8.1.13 Vacuum Fan menu

Set up the vacuum fan operation.

Setup Item	Setting Value	Description
Vacuum Fan	Low	Set when using soft media.
	<High>	Set when regular media is used.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► User media menu**

4.8.2 Effect menu

Set up the Effect menu.
Use this menu to improve the print quality by means of intelligent interweaving print algorithms (i²)

Setup Item	Setting Value	Description
Effect	None	The Effect function is not used.
	Wave	The overlay will be wave form. It will improve the printing quality.
	Fine&Wave	Perform printing at a slow speed compared with "Wave". Set up this menu when you want to improve the printing quality compared with "Wave".
	S.Fine&Wave	Perform printing at a slow speed compared with "Fine&Wave". Set up this menu when improving the printing quality compared with "Fine&Wave".
	—	• [Enter] key: Save the setting and shift to the previous menu. • [Cancel] key: Cancel the setting and shift to the previous menu. **► Setup menu**

4.8.3 Flushing menu

Set up the Flushing operation while printing.

Setup Item	Setting Value	Description
Flushing	Origin	Every time the print head goes and returns. The flushing operation is performed in the flushing box. • [Enter] key: Save the setting and shift to the previous hierarchy.
	<On Media>	Perform the flushing operation on the page margins. Improves the print quality since returning to the flushing box. • [Enter] key: Save the setting value and shift to the previous hierarchy. ***► Flushing return count menu***
	—	• [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

4.8.3.1 Flushing return count menu

Set the frequency (flushing return count) that the print head returns to the original flushing box when setting "On Media" in the Flushing menu.

⚠ Notes ⚠

- When increasing the flushing return count, clogging may occur while printing continuously.

Setup Item	Setting Value	Description
Return count	Once to < 5 times > to 999 times	Set the flushing return count. Example • Once: return to the original flushing box every time the print head goes and returns once. • 5 times: return to the original flushing box every time the print head goes and returns five times.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy.

4.8.4 Side Margin menu

Set up the right and left margin (side margin) while printing.

Setup Item	Setting Value	Description
Count	<3 mm> to 25 mm	Set the side margin.
	—	• [Enter] key: Save the setting value and shift to the previous hierarchy. • [Cancel] key: Cancel the setting value and shift to the previous hierarchy. **► Setup menu**

⚠ Notes ⚠

- When selecting "On Media" in the Flushing menu, the value of the Side Margin is set automatically.

4.8.5 Media Initial menu

Set up whether the media width and edge are to be detected when initializing the media.

Setup Item	Setting Value	Description
Init.	Off	The media is not detected. **⚠ Notes ⚠** • Set the media width that is set in the Media Width menu when setting "Off" in the Media detection menu, **► Media Width / Media Width menu**
	Top&Width	Detect the media width and edge while initializing the media.
	<Width>	Detect the media width while initializing the media.
	—	• [Enter] key: Save the setting value and shift to the previous hierarchy. • [Cancel] key: Cancel the setting value and shift to the previous hierarchy. **► Setup menu**

4.8.6 Media Width / Media Width menu

If media detection is switched OFF, the media width menu allows you to manually enter the media width.

(1) Media Width menu

⚠ Notes ⚠

- Setting a larger value than the media width set in the Media Width menu may cause ink to be fired onto the printer.

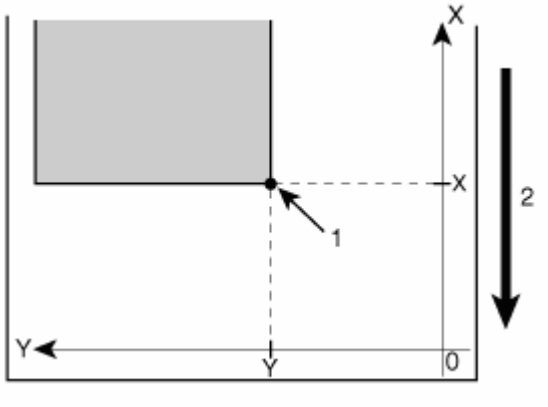
Setup Item	Setting Value	Description
Media Width	210 mm to <1,000 mm> to 1,225 mm	Set the media width.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

(2) MediaWidth menu

Setup Item	Setting Value	Description
MediaWidth	**** mm	Display the media width that is detected while initializing.
	—	[Cancel] key: Shift to the previous hierarchy. ► **Setup menu**

4.8.7 Origin menu

Set this menu when reprinting on the margin, when the printing data position is changed to the position of the already printed media.

Setup Item	Setting Value	Description
Origin	• X (media feeding distance): 00000 mm to 9,999 mm • Y (print head transferring distance): 00000 mm to 99999 mm	Change the print head position and media feeding distance with the following keys. • [>] key: Decrease the print head transferring distance. • [<] key: Increase the print head transferring distance. • [+] key: Increase the media feeding distance. • [–] key: Decrease the media feeding distance.  1. Starting position 2. Media feeding direction • [Enter] key: Display "Moving Origin Pos.", and move the print head to the starting position. The operation panel displays the following contents.
	Confirm Position→E	• [Enter] key or after a certain period of time: The setting value is determined. Print head returns to the original position. Save the setting and shift to the previous hierarchy. ► **Setup menu**
	—	• [Cancel] key: Cancel the setting and shift to the previous hierarchy. ► **Setup menu**

4.8.8 Prev. Stick menu

Set up to prevent jam prints from sticking when printing.

Setup Item	Setting Value	Description
Prev. Stick	Off	Sticking prevention is not performed
	<On>	The sticking prevention is performed. Feed the media back and forth to prevent sticking.
	—	• [Enter] key: Save the setting value and shift to the previous hierarchy. • [Cancel] key: Cancel the setting value and shift to the previous hierarchy. **► Setup menu**

4.8.9 CR Movement menu

Set up the range to move the print head while printing.

Setup Item	Setting Value	Description
CR Movement	<Data>	The print head changes the range of the print data width. Improve the print speed since decreasing the transferring range of the print head.
	Machine	The print head moves from origin to the maximum paper width.
	—	• [Enter] key: Save the setting value and shift to the previous hierarchy. • [Cancel] key: Cancel the setting value and shift to the previous hierarchy. **► Setup menu**

4.8.10 Overwrite Cnt menu

Set up the Overwrite Cnt per line.

Setup Item	Setting Value	Description
Overwrite Cnt	<once> to 9 times	Set the overwrite count.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

4.8.11 Overwrite Wait menu

Set up the waiting time while overwrite printing.

⚠ Notes ⚠

- Media may not be warmed enough by the heater causing less printing quality. In this case, set the Overwrite Wait time and warm up the media.

Setup Item	Setting Value	Description
Overwrite Wait	<0s> to 0.1s to 5.0s	Set the Overwrite Wait time.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

4.8.12 Slant Check menu

Set up the slanting detection while loading the media.

Setup Item	Setting Value	Description
Slant Check	Off	Slant Check is not performed.
	<On>	Slant Check is performed.
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

4.8.13 Auto Cleaning menu

Set the auto cleaning interval of the printer.
Prevents the print head from clogging.

Setup Item	Setting Value	Description
Auto Cleaning	Off	The auto cleaning is not performed.
	1 hours	When selected time is reached, the auto cleaning is performed.
	2 hours	
	3 hours	
	4 hours	
	5 hours	
	6 hours	
	9 hours	
	12 hours	
	18 hours	
	24 hours	
	—	• [Enter] key: Save the setting and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. **► Setup menu**

4.8.14 Ink Status menu

Display information (ink status) of ink cassette that installed into the ink cassette slot.

⚠ Notes ⚠

- When displaying the Ink Status menu, use the genuine ink cassette. When using ink cassette other than the genuine ones, the ink status will not be displayed correctly.

Setup Item	Setting Value	Description
KCMY	0 - 100 (Unit: %)	Residual ink quantity of K, C, M and Y colour is displayed.
	—	• [Cancel] key: Shift to the previous hierarchy. ► **Setup menu**

4.8.15 Roll Length menu

Set up the roll media length.

Setup Item	Setting Value	Description
Roll media	<Off>	Roll Length is not used. • [Enter] key: Save the setting and shift to the previous hierarchy.
	Roll1	Set up the roll media length. The Roll Length setting can be set for "Roll1" to "Roll3". • [Enter] key: Save the setting and shift to the next hierarchy. ► ***Roll length menu***
	Roll2	
	Roll3	
	—	• [Cancel] key: Cancel the setting and shift to the previous hierarchy. ► **Setup menu**

Roll Length menu

Set up the roll media length.

Setup Item	Setting Value	Description
Length	1m to <30m> to 99m	Set the roll media length. ⚠ Notes ⚠ • When replacing the roll media, adjust the roll media length again. • If the roll media length is not set, the residual quantity of roll media will not be displayed correctly.
	—	• [Enter] key: Save the setting value and shift to the previous hierarchy. • [Cancel] key: Cancel the setting and shift to the previous hierarchy. ► **Setup menu**

4.8.16 Head Wash menu

Perform head cleaning.

⚠ Notes ⚠

- Make sure to use a genuine cleaning fluid (model No.: RJ80U-22-CLN).

Setup Item	Setting Value	Description
Head Wash	Start	Perform head cleaning. • [Enter] key: Perform the head cleaning operation. The operation panel displays the following contents.
	Remove cassettes	Remove the ink cassette, and install the cleaning cassette. **► Replacing ink cassettes**
	—	• [Cancel] key: Shift to the previous hierarchy without the head cleaning operation. **► Setup menu**

4.8.17 CR Maintenance menu

Clean the wiper.

Setup Item	Setting Value	Description
CR Maintenance	Start	Clean the wiper. • [Enter] key: The print head moves to centre. The wiper moves forward.
	End	Cleaning the wiper is complete. • [Enter] key: Print head returns to the original position. The wiper returns to the original position.
	—	• [Cancel] key: Shift to the previous hierarchy without the wiper cleaning operation. **► Setup menu**

4.8.18 Initialization menu

The setting value of the printer is returned to default.

Setup Item	Setting Value	Description
Initialization	ALL	All settings can be returned to factory default.
	MediaType	The settings of the MediaType menu are returned to factory default.
	Except MediaType	The settings other than the MediaType menu are returned to factory default.
	—	• [Enter] key: Display "Initialling" on the operation panel, and initialize the setting. • [Cancel] key: Shift to the previous hierarchy without initialization. **► Setup menu**

4.8.19 Life Times menu

Displays the operational life time of each part.

Setup Item	Setting Value	Description
Life Times	Head	Display the operational life of each part. • The operational life of a part is indicated by five asterisks (100 %). • As the part deteriorates, the number of asterisks decreases one by one (20 %). • The part should be changed when all of the asterisks have disappeared, and "Change" is displayed.
	Pump	
	CR Motor	
	PF Motor	
	—	• [Cancel] key: Shift to the previous hierarchy. **► Setup menu**

⚠ Notes ⚠

- Do not keep using a part which has reached its life span. Problems caused by doing so will not be covered by the warranty.

4.8.20 IP Address menu

Sets the IP address of the printer.

⚠ Notes ⚠

- Be sure to set the IP address after consulting your network administrator.

Setup Item	Setting Value	Description
IP Address	000.000.000.000~ <192.168.001.253>~ 255.255.255.255	Change the IP address by way of the following keys. • [+] key: Increase the value. • [–] key: Decrease the value. • [Enter] key: Change the value for the next segment.
	—	• [Cancel] key: Save the setting and shift to the previous hierarchy. **► Setup menu**

4.8.21 Subnet Mask menu

Sets the subnet mask of the printer.

⚠ Notes ⚠

- Be sure to set the subnet mask after consulting your network administrator.

Setup Item	Setting Value	Description
Subnet Mask	000.000.000.000~ <255.255.255.000>~ 255.255.255.255	Change the subnet mask by way of the following keys. • [+] key: Increase the value. • [–] key: Decrease the value. • [Enter] key: Change the value for the next segment.
	—	• [Cancel] key: Save the value and shift to the previous hierarchy. **► Setup menu**

4.8.22 Gateway menu

Set the Gateway.

⚠ Notes ⚠

- Be sure to set the gateway after consulting your network administrator.

Setup Item	Setting Value	Description
Gateway	000.000.000.000~ <192.168.001.254>~ 255.255.255.255	Change the gateway by way of the following keys. • [+] key: Increase the value. • [–] key: Decrease the value. • [Enter] key: Change the value for the next segment.
	—	• [Cancel] key: Save the setting and shift to the previous hierarchy. ► **Setup menu**

4.9 OPERATING FROM THE OPERATION PANEL

This section describes various functions which can be operated from the operation panel.

⚠ Notes ⚠

- For names and functions of each key, refer to **operation panel**

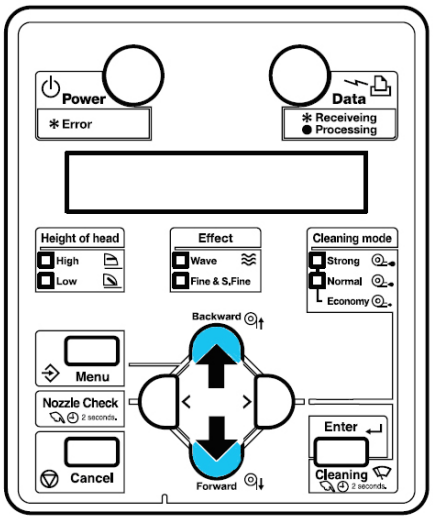
4.9.1 Feeding media

To feed media, follow the 4 steps below.

Step 1 : Verify that the printer is in Normal mode.

Step 2 : Check that the media hold lever is positioned to the front side (lever down).

Step 3 : Press the [Forward feed↓] key or [Backward feed↑] key on the operation panel.



Result: Media is fed forward or backward.

⚠ Notes ⚠

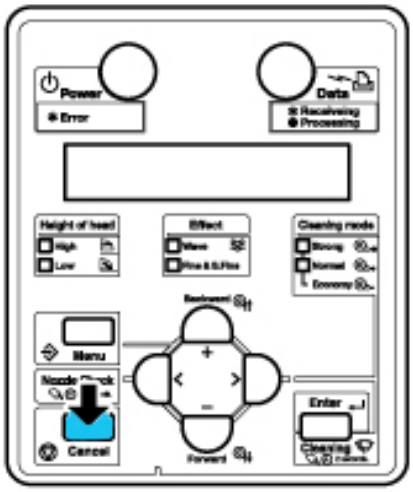
- When sheet media has been loaded, media feed cannot be performed.

Step 4 : Release the [Backward feed ↑] key or [Forward feed ↓] key on the operation panel after feeding the media to the desired position.

4.9.2 Stop printing

To stop printing:

→ Press the [Cancel] key on the operation panel. See image below.



Result: The printer will operate as follows:

Printer Status	Operation with the [Cancel] key pressed
Printing	Terminates printing and deletes the non printed data.
Receiving, analyzing	Deletes the received and analyzed data and the rest of the incoming data of the print file.
Before data receiving	When roll media has been loaded, the roll media will be cut at that position. See **Cutting media**
Ink dry timer wait	Ignores the setting of the ink dry timer wait function and ejects the media.

⚠ Notes ⚠

- If a large amount of data is saved on the printer, the operation panel may not return to normal status by a single [Cancel] key operation.
  In such cases, wait for a few seconds and press the [Cancel] key again.

4.9.3 Cutting media

This sub-section explains how to cut roll media.

⚠ Caution ⚠

- **When printing is finished, the media guide is at high temperature. Wait until the media guide cools off.**

According to the following procedure, cut roll media.

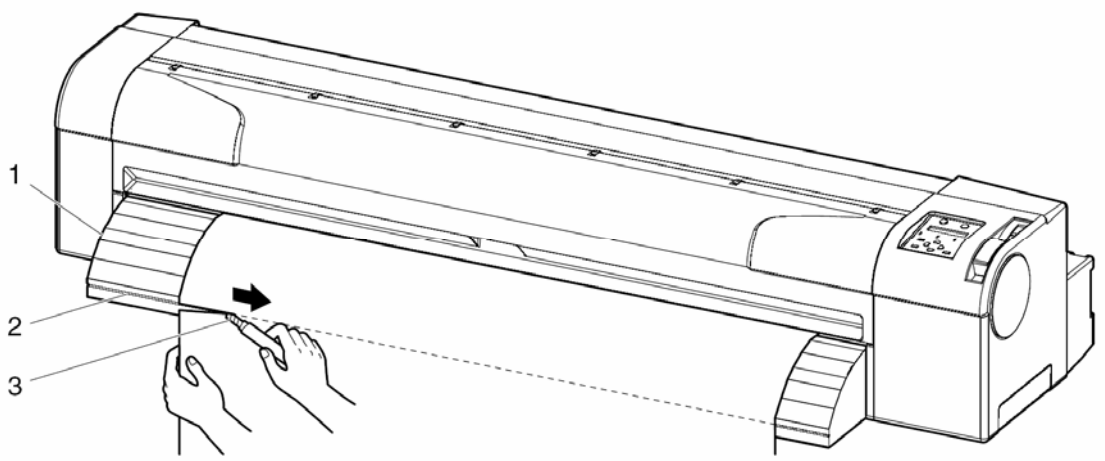
Step 1 : Regarding the operating condition of the printer, check the following:
- o Printing or other operations are not performed.
- o Make sure that the display on the operation panel shows the normal state.

Step 2 : If the roll media cut position is changed, refer to **Feeding media** and advance the roll media to the desired cut position.

Step 3 : Place a razor blade on the media cut groove on the media guide, and cut the roll media.

⚠ Caution ⚠

- **Pay attention to the following points when you cut roll media. Improper use of the razor blade may cause you to cut your finger or hand.**
  - o **When you hold media, do not place your finger on the media cut groove.**
  - o **Move the razor blade along the media cut groove.**



Nr.	name
1	Media guide
2	Media cut groove
3	Razor blade

Result: Cutting roll media is complete.

⚠ Notes ⚠

- If it is not straight when loading the new roll media, cut the front edge of the roll media

4.9.4 Changing and confirming settings on the fly

While the printer is operating, you can change or confirm settings for the Panel setup menu.

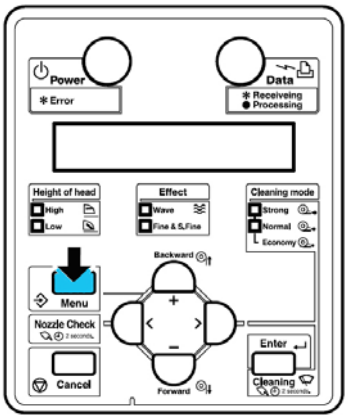
4.9.4.1 Procedure for changing and confirming set settings while printing

Follow the steps below to change or confirm settings for the Panel setup menu.

Step 1 : Confirm that the printer is in the following operations.

- Receiving
- Converting
- Printing
- Warming Up

Step 2 : Press the [Menu] key on the operation panel



Result: The operation panel displays "Menu 1: Print Start".

Step 3 : Press the [+] key or [–] key to change or confirm settings.

⚠ Notes ⚠

- For the settings which can be changed or confirmed, refer to **settings that can be changed or confirmed while printing.**

4.9.4.2 settings that can be changed or confirmed while printing

Setup Item	Setting	Description
Print start	-	[Enter] key: If the heater temperature does not reach the set value during warming-up, printing starts.
Temperature	Pre	Check the current Pre Heater temperature.
	Fixer (platen)	Check the current Fixer (Platen) temperature.
	Dryer	Check the current Dryer temperature.
Pre Heater	Off / 30 °C to 50°C	Change the Pre Heater temperature.
Fixer (Platen)	Off / 30 °C to 50°C	Change the fixer (platen) temperature.
Dryer	Off / 30 °C to 50°C	Change the dryer temperature.
PF Adjust	-20 pulse to 0 to 20 pulse	Change the feed adjustment value.
Backup	-	[Enter] key: Save the changed settings.
	-	[Cancel] key: The printer enters in the normal condition

⚠ Notes ⚠

- The Print start menu is displayed only when the printer is warming up.
- When you change the settings during operation, be sure to select "Backup" to save the changed value. If the printer returns to normal status without "Backup" being selected, the changed value is not saved.

5 PERIODICAL MAINTENANCE

5.1 DONE BY END USER 96
5.1.1 Cleaning the outer case 97
5.1.2 Cleaning inside the printer 97
5.1.3 Head cleaning 99
5.1.4 Cleaning the wiper 101
5.1.5 Replacing waste fluid box 103
5.1.6 Replacing the spitting box absorbent 105
5.2 DONE BY AUTHORIZED MUTOH TECHNICIAN 107
5.2.1 Periodical replacement of parts 107
5.2.2 Periodical Inspection Part List 107

5.1 DONE BY END USER

⚠ Notes ⚠

- Do not insert or drop metal or other objects through openings in the printer. It could lead to an electric shock and fire.
- When substances or liquids such as water entered the printer, do NOT use the printer. It could lead to an electric shock and/or fire. Immediately
  - o Switch OFF the printer,
  - o Disconnect the power plug from the electric socket,
  - o Contact your local MUTOH dealer.

⚠ Caution ⚠

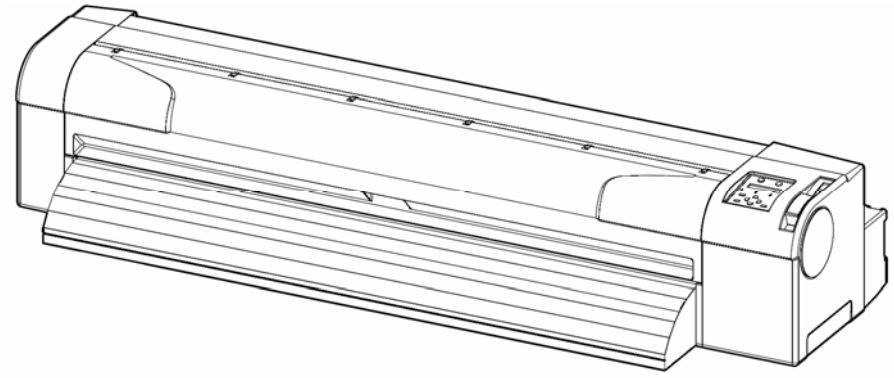
- **Be sure to switch OFF the printer and to disconnect the power plug when cleaning it.**
- **Do not use volatile solvents such as thinner, benzene, or alcohol. These solvents could damage the printer.**
- **Be careful that moisture does not enter the printer. There is a possibility that electric circuits inside the printer might get short circuited.**
- **Do not open covers attached with screws. There is the possibility of an electric shock or printer breakdown.**

maintenance	frequency	Parts needed
Outer case	Daily	Soft cloth
Inside the printer	Daily	soft brush / soft cloth
Head cleaning	If print become blurred or incomplete	-----
Cleaning the wiper	Once a week or when blurs or incompleteness in printing remain after hed cleaning	Poly-knit wiper
Replacing waste fluide tank	Replace if "NearFullWasteInkTank" is displayed on the operation panel.	***
Replacing spitting box absorbent	When the spitting box absorbent becomes deformed, when smears of ink appear on the media or two months after replacement	***

***: Please contact your local Mutoh reseller for ordering parts.

5.1.1 Cleaning the outer case

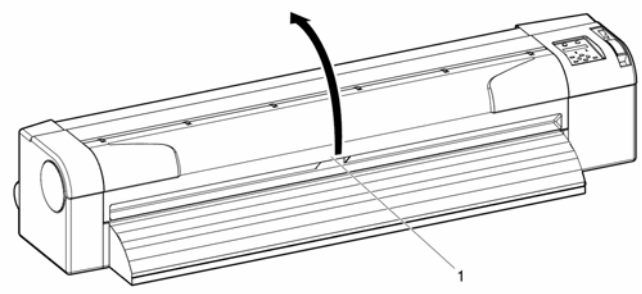
Instruction: Wipe off the dust and possible dirt from the outer case by using a soft cloth.



5.1.2 Cleaning inside the printer

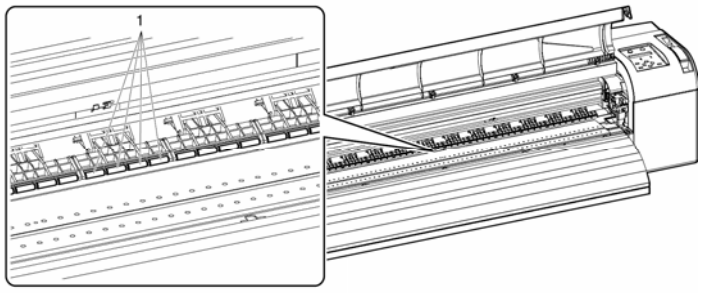
To clean inside the printer, follow the 4 steps below.

Step 1 : Open the front cover (1).



No.	Name
1	Front cover

Step 2 : Remove paper powder and dust from the pressure rollers (1), using a soft brush.

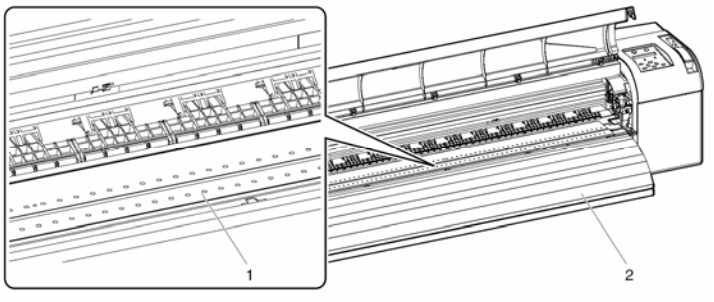


No.	Name
1	Pressure rollers

⚠ Notes ⚠

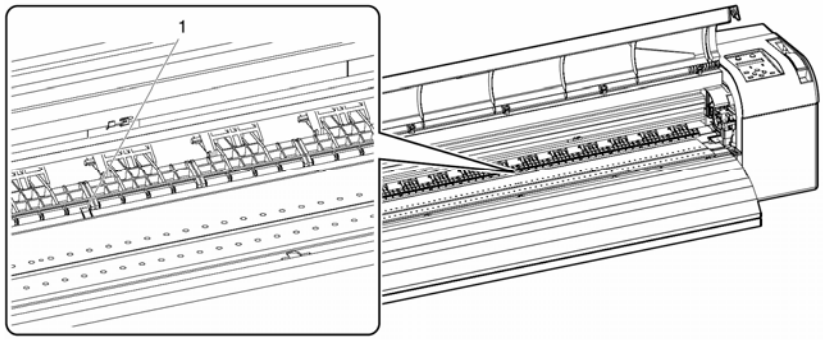
- Do not blow paper powder and dust from the pressure rollers (1), remove media while cleaning.

Step 3 : Wipe off paper powder and ink from the platen (1) using a dust-free and soft cloth slightly damped with water.



No.	Name
1	Platen
2	Media Guide

Step 4 : Wipe off the dirt of the grid roller's unpainted (silver colour) area with damp and a tightly squeezed soft cloth.



No.	Name
1	Grid roller

5.1.3 Head cleaning

When to perform?
If the prints become blurred or are incomplete.

How to perform?
To perform a head cleaning, follow the steps below.

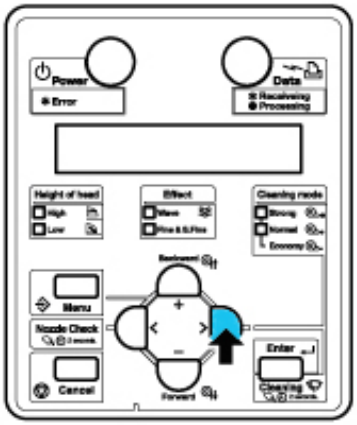
⚠ Notes ⚠

- Remove media while cleaning.

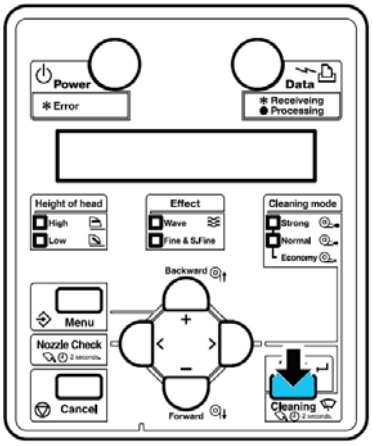
Step 1 : Verify that the operation panel is in Normal mode.

Step 2 : Verify that the media hold lever is positioned to the front side. (lever down)

Step 3 : Press the [>] key on the operation panel to select the cleaning mode.



Step 4 : Press the [Cleaning] key on the operation panel for at least 2 seconds.



Result: The operation panel displays "Cleaning **%.

Step 5 : Start the head cleaning.

⚠ Notes ⚠

- Pressing the [Cleaning] key again after the first head cleaning is done, performs a strong cleaning.
- If you fail to remove blurs or incompleteness of printing in one head cleaning, you should perform the strong cleaning.
- If you fail to remove blurs or incompleteness of printing with several head cleaning, refer to **Troubleshooting**, and perform the adequate process.

⚠ Notes ⚠

- If when you are cleaning, the ink level reaches its end, an ink end indication will be displayed to warn you.

5.1.4 Cleaning the wiper

This sub-section describes the cleaning steps of the wiper.

(1) Cleaning time

Once a week or when blurs or incompleteness in printing remain after head cleaning.

(2) Cleaning steps

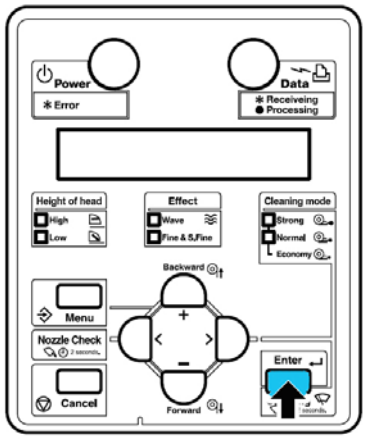
Follow the steps below to clean the wiper.

⚠ Notes ⚠

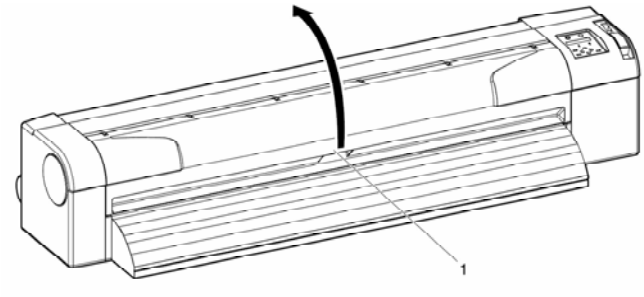
- Use the poly-knit wiper when cleaning the wiper.

Step 1 : If the printer is switched ON, make sure that:
- Printing or other operations are not in progress.
- The display on the operation panel is in the normal state.

Step 2 : Press the [Enter] key on the operation panel.
- The printer starts cleaning the wiper.
- The operation panel displays "CR Maintenance: End".



Step 3 : Open the front cover.



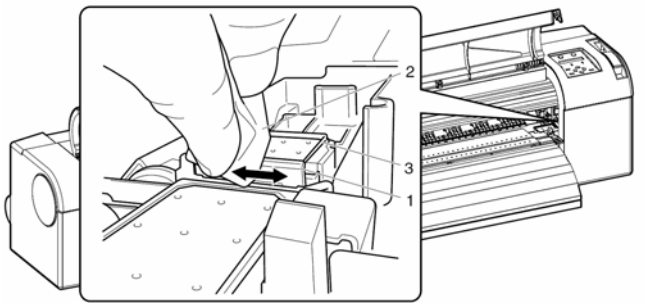
No.	Name
1	Front Cover

⚠ Notes ⚠

- While cleaning the wiper
  - o Do not touch the wiper and head cap unit with your hands,
    Head cleaning may not be performed correctly because of the grease on your hands.

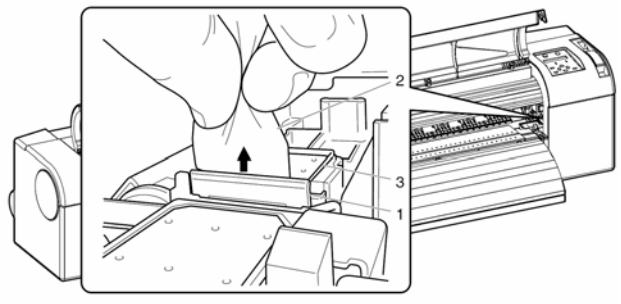
Step 4 : Use the poly-knit wiper, and remove the ink and dust on the wiper.

o Wiper front side: Wipe horizontally.



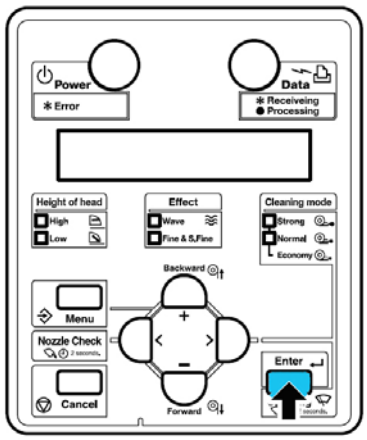
No.	Name
1	Cleaning wiper
2	Poly-knit wiper
3	Head cap unit

o Wiper back side: Wipe vertically.



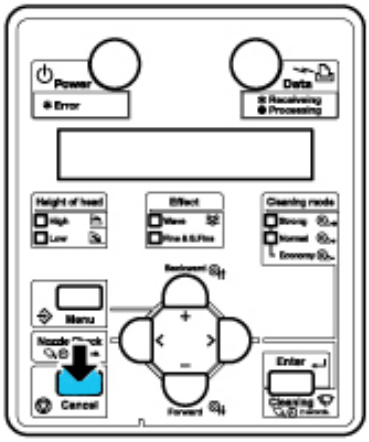
No.	Name
1	Cleaning wiper
2	Poly-knit wiper
3	Head cap unit

Step 5 : Press the [Enter] key on the operation panel.



- The print head section returns to the original position.
- The wiper returns to the original position.
- The operation panel displays "CR Maintenance: Start".

Step 6 : Press the [Cancel] key on the operation panel.



- The printer enters normal status.
- Cleaning the wiper is complete.

5.1.5 Replacing waste fluid tank

Describes the replacement time and replacement method for the waste fluid tank

(1) Replacement time

Replace the waste fluid tank if**…**

…"NearFullWasteInkTank" is displayed on the operation panel.
- The waste fluid tank shortly will become full.
- Printing continues.

Action: Prepare a waste fluid tank for replacement before the waste fluid tank is full.

…"FullWasteInkTank" is displayed on the operation panel.
- The waste fluid tank is full.
- Printing stops.

Action: Immediately replace the waste fluid tank.

(2) Type

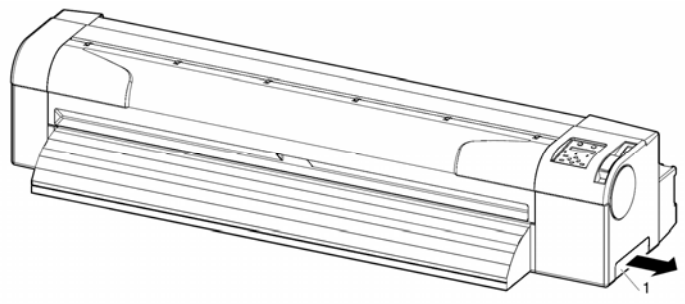
Description	Model No.
Waste fluid tank	DE-36814

(3) Replacement steps

To replace the waste fluid tank, follow the 5 steps below.

Step 1 : Verify that the plotter has been switched ON.

Step 2 : Pull out the waste fluid tank (1) as shown on the image below.



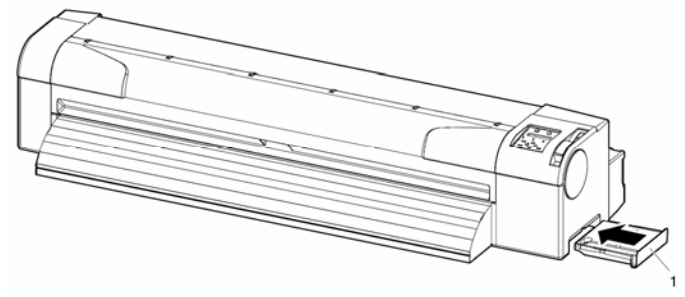
No	Name
1	Waste fluid box

Result: No Waste fluid tank " will be displayed on the operation panel.

⚠ Notes ⚠

- A used waste fluid tank should be put in a vinyl bag or bag used for this kind of waste. Disposal of a waste fluid tank has to be done in compliance with the regulations and instructions of the local authorities.

Step 3 : Install a new waste fluid tank (1) in the printer as shown on the image below.



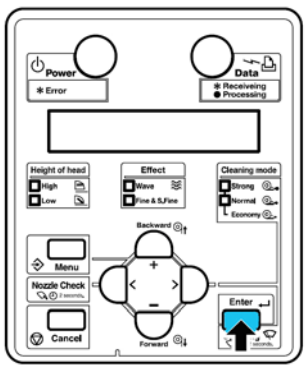
No	Name
1	Waste fluid tank

Step 4 : Verify that the operation panel displays "Exchange Tank? No".

Step 5 : Select "Exchange Tank? Yes" and press the [Enter] key on the operation panel.

⚠ Notes ⚠

- If the waste fluid tank is not replaced, press the [Enter] key on the operation panel with "Exchange Tank? No" displayed.



5.1.6 Replacing the spitting box absorbent

This section explains how to replace the spitting box absorbent.

(1) Pre- transport procedure

Replace the spitting box absorbent in the following situations.

- When the spitting box absorbent becomes deformed.
- When smears of ink appear on the media
- Two months after replacement.

(2) Type

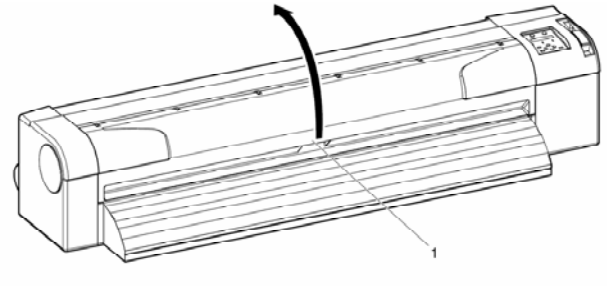
⚠ Notes ⚠

- For types and details of the spitting box absorbent, refer to "Supply list" in the Operation manual.

(3) Replacing steps

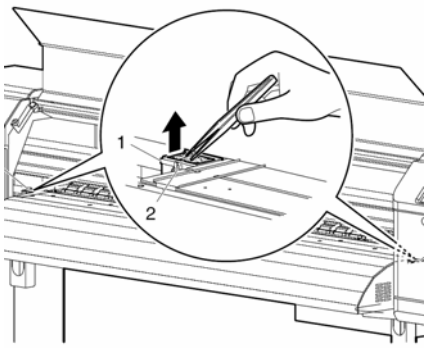
Follow the steps below to replace the spitting box absorbent.

1. If the printer is turned ON, make sure that:
   - Printing or other operations are not in progress.
   - The operation panel display is Normal.
2. Open the front cover.



No.	Name
1	Front cover.

3. Remove the spitting box absorbent from each spitting box using tweezers.

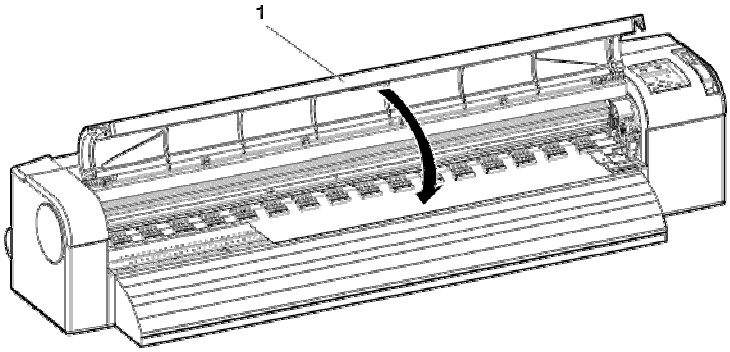


⚠ Caution ⚠

- **Do not drop waste fluid when replacing the spitting box absorbent. If waste fluid comes into contact with the grid roller, the surface of the grid roller will be damaged, and the media feed function may be affected.**

4. Install the new spitting box absorbent to each spitting box.

5. Close the front cover.



No.	Name
1	Front cover

- Spitting box absorbent replacement is complete.

5.2 DONE BY AUTHORIZED MUTOH TECHNICIAN

This section describes the periodical part replacements and the periodical inspections required for this printer.
These periodical services ensure the stable printing quality of the printer.

5.2.1 Periodical replacement of parts

Perform periodical replacements according to the table below. These replacements should be executed by an authorized Mutoh technician. These replacements are necessary to ensure the best printing quality output.

Part	Timing
Maintenance station	Once year
Wiper	Once year
Damper	Once year

5.2.2 Periodical Inspection Part List

Perform periodical inspections according to the table: "Periodical Inspection Part List" and perform cleaning and part replacement as necessary.

Part	Timing	Check point
Media guide L Sub platen front surface	Once year	• Media dust accumulation • Foreign objects • Damages
Timing fence (CR encoder detection slit plate)	Once year	• Media dust accumulation • Foreign objects • Damages
Rail on the CR guide frame	Once year	• Foreign objects
P_REAR sensor front surface	Once year	• Media dust accumulation • Foreign object

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6 TROUBLESHOOTING

6.1 MALFUNCTION AND FAILURE OF THE PRODUCT 110

6.1.1 Problem at installation and introduction 110

6.1.2 Cannot generate graphics. 111

6.1.3 Media-related troubleshooting 112

6.1.4 Printing-related troubleshooting 114

6.2 ERROR MESSAGES 115

6.2.1 Status messages 115

6.2.2 Error message display and remedies 116

6.2.3 Data error display and remedies 117

6.2.4 Command error display and remedies 117

6.2.5 Error requiring a restart 118

6.3 THE MEDIA IS JAMMED 119

If the error is not included in any items of this section, then refer to **Error messages** and contact your local MUTOH dealer.

⚠ Notes ⚠

- When you have to receive product service within the warranty period, verify you have a warranty certificate. If the warranty certificate is not presented, the parts and service will not be included in the warranty and will be charged for.
  If you have signed a maintenance service contract, then present the contract to the service technician.

6.1 MALFUNCTION AND FAILURE OF THE PRODUCT

This section describes malfunctions and failures of the product without displaying errors, and possible causes and countermeasures.

6.1.1 Problem at installation and introduction

(1) Cannot perform ink initial filling

Possible cause	Remedy
The front cover is open, or media hold lever is up.	Close the front cover, or lower the media hold lever.
Are all four ink cassettes fully inserted?	Fully insert all four ink cassettes.
Is the waste fluid tank fully inserted?	Fully insert the waste fluid tank.

(2) Ink does not come out after initial filling

Possible cause	Remedy
The ink cassette is cool and frozen. Head clogging.	Leave the cassette at room temperature for at least 3 hours, and perform a head cleaning several times.
The power has been switched OFF during initial ink fill.	Switch the power on again and continue initial filling.
Normal printing cannot be performed after initial filling.	Perform cleaning several times, and check it each time.

6.1.2 Cannot generate graphics.

(1) Do not actuate at all after power activation

Possible cause	Remedy
Is the power cable connected to the plug?	Connect the power cable.
Is the AC power supply set for the specified voltage?	Connect the cable to another outlet.
The front cover is open, or media hold lever is up.	Close the front cover. Lower the media hold lever.
Is the waste fluid tank fully inserted?	Fully insert the waste fluid tank.

(2) Does not work after setting the media

Possible cause	Remedy
The front cover is open, or media hold lever is up.	Close the front cover. Lower the media hold lever.
The media is not loaded straight into the printer.	Load the media straight.
Are the ink cassettes inserted?	Insert the ink cassettes.
Are you using compatible media?	Use compatible media.
Is the printer being used in an environment other than the one specified, such as in direct sunlight?	Only use the printer in an environment that is specified for use.

(3) An error is displayed and details not printed after sending data from the computer

Possible cause	Remedy
Is the type of computer selected correctly?	Check that the settings on the computer side and printer side are the same.
Are the interface requirements and command mode the same on the computer side and printer side?	

(4) Cannot use the computer in online mode via LAN

Possible cause	Remedy
Is the network interface cable connected correctly?	Connect the network interface cable correctly.
Is network setting configured correctly?	Configure network settings correctly.
Are the printer's network settings correctly configured?	Match this product's network settings with the computer side environment.
Does the Data light on the operation panel light up after sending graphics data from the computer?	If the Data light does not light up, contact the computer manufacturer.

6.1.3 Media-related troubleshooting

(1) The media deviates or is torn during initialization.

⚠ Notes ⚠

- If the media is jammed or torn, remove it according to **6.3 The media is jammed**

Possible cause	Remedy
Are you using the compatible media?	Use the compatible media.
Is the loading position of the media correct?	Set the media correctly.
Is the scroller set correctly?	Set the scroller correctly.
Are there any foreign materials such as paper attached to the pressure rollers?	Clean the pressure rollers.
Is the printer being used in an environment other than the one specified, such as in direct sunlight?	Only use the printer in an environment that is specified for use.
Are you using folded, torn or rolled media?	Replace the media.
Does the media curl or float?	Use compatible media. If non-compatible media is used, set the following items in the MediaSet Menu. · Media · Stiffness

(2) The media is crumpled during initialization.

⚠ Notes ⚠

- If the media is jammed or torn, remove it according to **6.3 The media is jammed.**

Possible cause	Remedy
Are you using compatible media?	Use compatible media.
Is the loading position of the media correct?	Set the media correctly.
Is the media loaded at an angle?	Set the media straight.
Are there any foreign materials such paper attached to the pressure rollers?	Clean the pressure rollers.
Is the printer used in an environment other than the one specified, e.g. near an air conditioner?	Only use the printer in an environment that is specified for use.
Are you using folded, torn or rolled media?	Replace the media.

(3) The wrong media size is set during initialization.

Possible cause	Remedy
Are you using compatible media?	Use compatible media.
Is the media loaded at an angle?	Set the media straight.
When the media is set, does it curl upward?	Straighten the media or set a new media.
Is the being printer used in an environment other than the one specified, e.g. near an air conditioner?	Only use the printer in an environment that is specified for use.
Are you using media that has been printed already?	Use new media.

(4) Tracing paper or thin media is not detected.

Possible cause	Remedy
Are you using compatible media?	Use compatible media.
Is the printer being used in an environment other than the one specified, e.g. in direct sunlight?	Only use the printer in an environment that is specified for use.

(5) Media jams frequently occur.

⚠ Notes ⚠

- If non compatible media is used, correct media feeding cannot be assured.

Possible cause	Remedy
Are you using compatible media?	Use the compatible media.
Is the media used in a place other than the specified environment?	Use the media in a dedicated environment.
Using old media?	Replace it with new media
Using media with fold, wrinkle, etc?	
Does the media curl or float?	Use compatible media. If media that is not dedicated is used, set the following items in the MediaSet Menu. · Media · Stiffness

(6) The media veers during printing.

Possible cause	Remedy
Are you using compatible media?	Use compatible media.
Is the loading position of the media correct?	Set the media correctly.
Is the scroller set correctly?	Set the scroller correctly.

6.1.4 Printing-related troubleshooting

(1) Printing is partially stained or incomplete.

⚠ Notes ⚠

- Proper print quality may not be obtained with non-compatible media.

Possible cause	Remedy
Does the media include moisture? Using the media with folds and wrinkles?	Replace it with new media.
Does the media curl or float?	Use compatible media. If media that is not compatible is used, set the following items in the MediaSet Menu. · Media · Stiffness

(2) The order of printing is incorrect (There are some places that cannot be printed).

Possible cause	Remedy
Is the loading position of the media correct?	Set the media correctly.
Set the origin and print position?	Cancel or reset the settings of the origin and print position.

(3) Printing is blurred.

Possible cause	Remedy
Are you using the compatible media?	Use the compatible media.
Using thick and thin media?	Use the compatible media.
Using standard media?	Use the compatible media.
Is the media setup correct?	Set up the media correctly.
Printing on the printing surface?	Confirm the printing surface of the media and set it correctly.

(4) White or black lines appear on the printing.

Possible cause	Remedy
Are you using compatible media?	Use compatible media.
Is the scroller set correctly?	Set the scroller correctly.
Are the nozzles in good condition?	Perform head cleaning.

(5) Printing lines are not straight.

Possible cause	Remedy
Is the ink cassette within the validity period?	Use a new ink cassette.
Are you using compatible media?	Use compatible media.
Is the printer correctly aligned?	Perform alignment.
Performed Media feed compensation	Perform media feed compensation

(6) Printing lines are duplicated or are patchy.

Possible cause	Remedy
Are the head nozzles in good condition?	Perform head cleaning.

6.2 ERROR MESSAGES

6.2.1 Status messages

This section describes the display during the printer operation.
When the product is operating correctly, the operation panel displays each operation status as below.

Message	Remedy
Ready to Print	Idling (Media is set).
Paper End	Idling (Media is not set).
Receiving [port*]	Receiving data. (* displays a port no.)
Converting [port*]	Analyzing data. (* displays a port no.)
Under printing	Printing.
Warming Up	Warming up the heater.
Cleaning **%	Cleaning the head. Please wait a while.
Ink Refill **%	Filling the ink. Please wait a while.
Washing	Cleaning the print head in the head cleaning process. Please wait a while.
Moving Origin Pos.	The print head is moving to the original printing position on the Origin setup menu. Please wait a while.
Confirm Position →E	The print head is moving to the original printing position on the Origin setup menu. Press the [Enter] key.
Remove Cassettes	Cleaning the head. Insert the cleaning cassette.
** Initialling **	Initializing the setting on the Initialization menu. Please wait a while.
** Press 2sec. **	The [Cleaning] key or the [Nozzle Check] key is pressed for less than 2 seconds. Press the key for more than 2 seconds again.
Insert CleaningCart.	Filling the cleaning fluid Insert the cleaning cassette.
Insert InkCassettes	Filling the ink. Insert an ink cassette.
Transport Mode	Preparing for transportation. Please wait a while.
Media: Type ** OK?	Initializing the media. Please wait a while. (*** represents the setup media type.)
Paper Initial	
Cover Open	The front cover is open.
Lever Up	The media hold lever is positioned backward. Set the media.
Layout Receiving	After receiving print data, the printer is waiting for receiving the next data. Displayed when the layout function is enabled.

6.2.2 Error message display and remedies

This section describes the details of the display when an error message appears and its remedy.
Error messages are displayed when certain failures occur during printer operation.
If an error message appears, the printer may display the following error message on the operation panel and stop operation.
When operation stops and the error is solved, the error message is cancelled and the printer restarts operation.

Message	Cause	Remedy
Undefined Paper	Failed in identifying the media. (Stops operation)	Reload the media.
Paper Slant	The media was not fed straight. (Stops operation)	Reload the media.
End Of Roll	The roll media has run out. (Stops operation)	Reload a new roll media.
[KCMY] InkNearEnd	Ink is running out. (Continues operation)	Prepare a new ink cassette.
[KCMY] Ink End	Ink has run out. (Stops operation)	Replace with a new ink cassette.
[KCMY] Cassette	Cassette is not inserted. (Stops operation)	Insert a genuine ink cassette.
[KCMY] Discharged	The ink is not initially charged. (Stops operation)	Charge the ink initially.
[KCMY] Dedicated media	A genuine ink cassette is not inserted. (Stops operation)	Insert a genuine ink cassette.
NearFullWasteInkTank	Waste fluid tank shortly becomes full. (Continues operation)	Replace the waste fluid tank.
FullWasteInkTank	The waste fluid tank is full. (Stops operation)	Replace the waste fluid tank.
Life Times [Head]	The operational life of the print head has almost expired. (Continues operation)	Contact MUTOH local dealer.
Life Times [Pump]	The operational life of the pump motor has almost expired. (Continues operation)	Contact MUTOH local dealer.
Life Times [CR Motor]	The operational life of the CR motor has almost expired. (Continues operation)	Contact MUTOH local dealer.
Life Times [PF Motor]	The operational life of the PF motor has almost expired. (Continues operation)	Contact MUTOH local dealer.

⚠ Notes ⚠

- The colour inside [ ] in the error display represents the problem ink colour.
- If the "No Ink" and "No Cassette" errors occur simultaneously, "No Cassette" is displayed.

6.2.3 Data error display and remedies

This section describes the details of the display when an error message appears and its remedy.
A data error appears if data communication between your PC and the printer has failed.
If a data error occurs, the following error message appears on the operation panel of the printer and operation stops.
When the cause of the error is solved, the printer starts operating again.

Message	Cause	Remedy
I** Error [ ]	An error occurred when receiving data.	Check the communication requirements between the printer and your PC.

⚠ Notes ⚠

- "***" in the error message is the code no. that indicates what type of error occurred.

6.2.4 Command error display and remedies

This section describes the details of the display when a command error occurs and its remedy.
A command error is displayed if a certain failure occurs during analysis of the command data sent from your PC to the printer.
If a command error occurs, the following error message appears on the operation panel of the printer and operation stops.
When the cause of the error is solved, the printer starts operating.

Message	Cause	Remedy
MH** Error [ ]	An invalid command has been sent from the computer.	Check that the settings on your PC and the printer are the same.

⚠ Notes ⚠

- "***" in the error message is the code no. that indicates what type of error has occurred.
- The command code representing the error occurred is indicated in [ ].
- For the settings on your PC side, refer to the Operating Guide attached with your PC.

6.2.5 Error requiring a restart

This section describes the details of the display when an error requiring a restart occurs and its remedy.
An error requiring a restart is displayed if a fatal operational failure such as the following occurs.

- When an obstacle which prevents printing occurs.
- When a problem occurs with the electrical circuit (PCB, motor, sensor, etc.) of the printer.
- When a failure on the printer control program occurs.

If an error requiring a restart occurs, the printer stops operating after performing the following operations.
1. The power automatically shuts down.
2. All lights on the operation panel blink, and the buzzer rings continuously.
3. The error message is displayed on the operation panel.

Pressing any key on the operation panel stops the beeping.
For an error requiring a restart, operation will return to normal after removing the cause of the error and restarting the printer.
If the same error continues to be displayed, contact your local MUTOH dealer. Be sure to tell us the code no. of the error message when you contact us.

Message	Cause	Remedy
E** Error [ ]	A problem that does not have a remedy.	1. Remove obstacles such as paper scraps in the drive system. 2. Check that the replaced items are correctly attached. 3. Switch off the printer power, and turn it on again after more than 10 seconds.

⚠ Notes ⚠

- "***" in the error message is the code no. that indicates what type of error occurred.
- The command code representing the error occurred is indicated in [ ].
- For the settings on your PC side, refer to the Operating Guide of your PC.

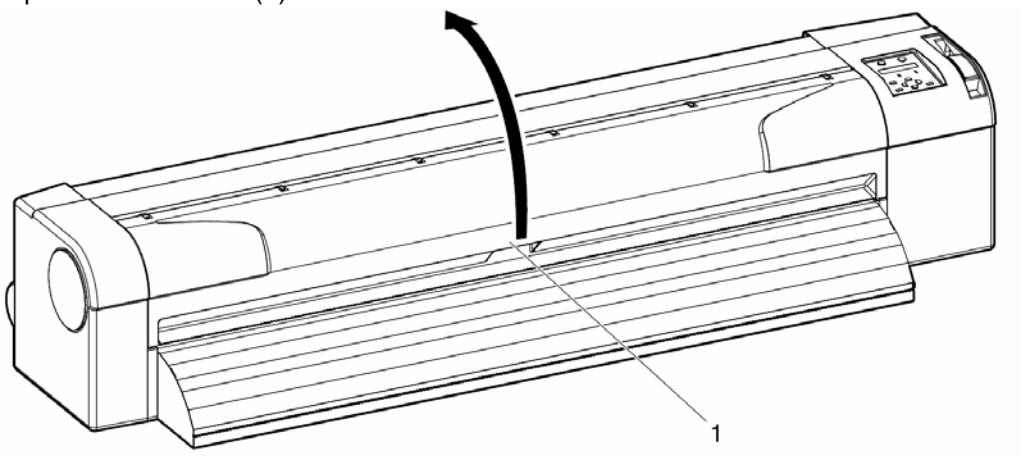
6.3 THE MEDIA IS JAMMED

When the set media is jammed, remove it according to the following procedures.

⚠ Caution ⚠

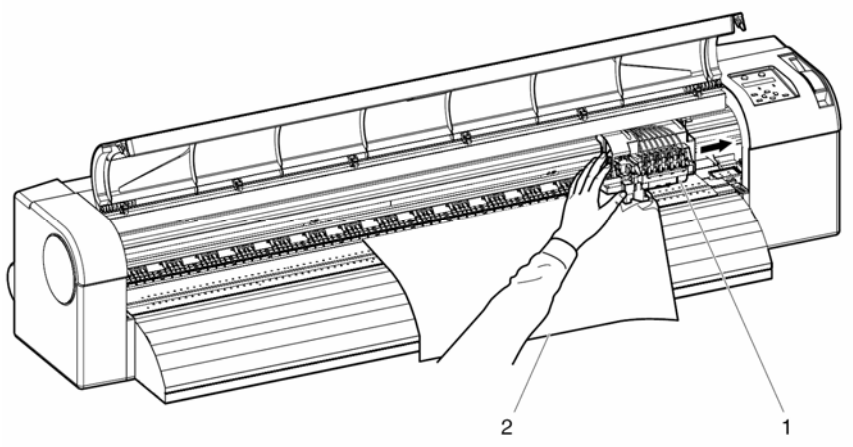
- **Be careful that your fingers are not caught between the covers.**

Step 1 : Open the front cover (1).



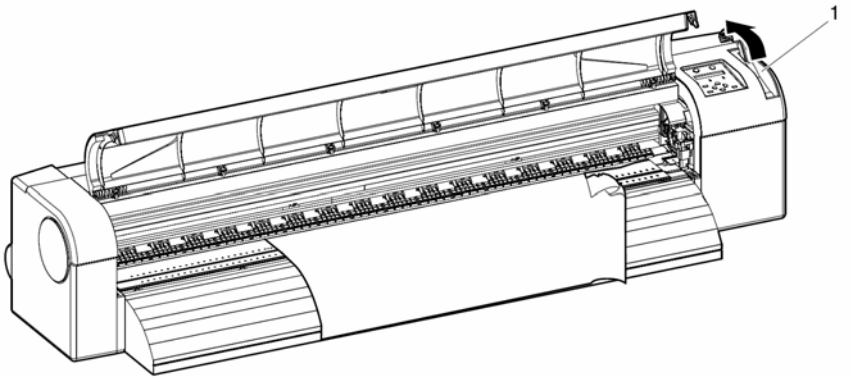
No.	Name
1	Front cover

Step 2 : Move the carriage (1) to the right.



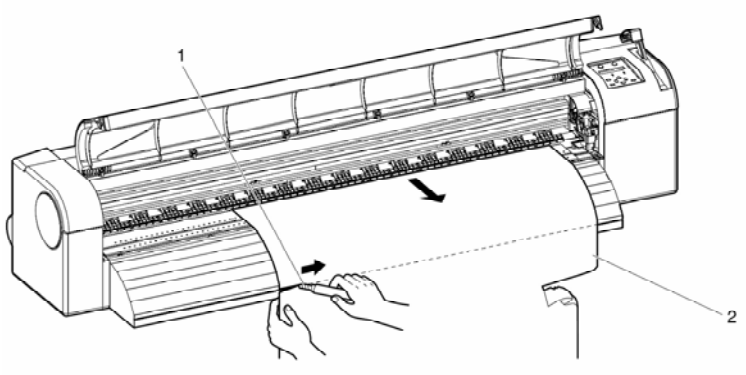
No.	Name
1	Carriage
2	Roll media

Step 3 : Push the media hold lever (1) backward.



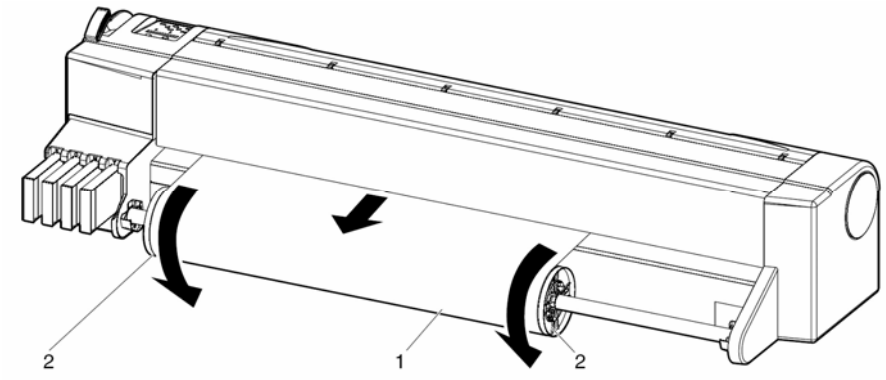
No.	Name
1	Media hold lever

Step 4 : Pull the media to your side, and cut the torn part with a cutter blade (1).



No	Name
1	Cutter blade
2	Roll media

Step 5 : Lift both end of the scroller (2), and gently rewind the roll media (1).



No.	Name
1	Roll media
2	Scroller

Step 6 : Remove all other remaining paper pieces in the printer.

Step 7 : If errors requiring a restart occur, switch off the printer, and switch it on again.

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